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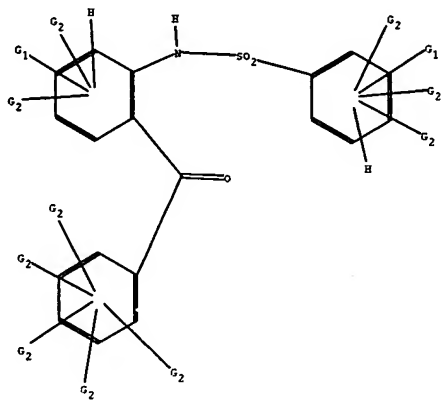

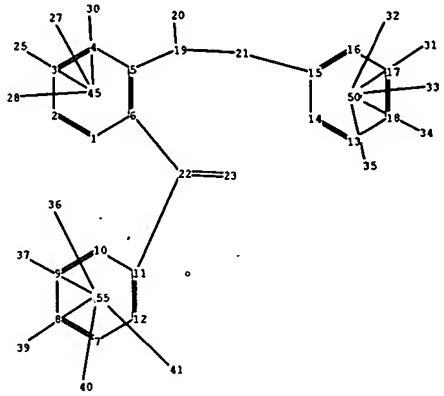

chain nodes :
19 20 21 22 23 25 27 28 30 31 32 33 34 35 36 37 39 40 41
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
chain bonds :
5-19 6-22 11-22 15-21 19-20 19-21 22-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15
15-16 16-17 17-18
exact/norm bonds :
5-19 19-21 22-23
exact bonds :
6-22 11-22 15-21 19-20
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15
15-16 16-17 17-18

G1:X,Cb,Ak

G2:X,Cb,Ak,H

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 25:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS
43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:CLASS 51:CLASS
52:CLASS 53:CLASS 54:CLASS 55:CLASS

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NEWS	9	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	10	MAR 22	PATDPASPC - New patent database available
NEWS	11	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
NEWS	14	APR 18	New CAS Information Use Policies available online
NEWS	15	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
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NEWS	20	JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
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NEWS	22	JUN 13	FRFULL enhanced with patent drawing images
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NEWS	24	JUN 27	MARPAT displays enhanced with expanded G-group definitions and text labels

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FILE 'HOME' ENTERED AT 18:53:07 ON 27 JUN 2005

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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LAST RELOADED: Jun 24, 2005 (20050624/UP).

=> FIL HOME

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	0.27

FILE 'HOME' ENTERED AT 18:53:22 ON 27 JUN 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.48

FILE 'REGISTRY' ENTERED AT 18:53:29 ON 27 JUN 2005
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STRUCTURE FILE UPDATES: 26 JUN 2005 HIGHEST RN 852987-17-8
DICTIONARY FILE UPDATES: 26 JUN 2005 HIGHEST RN 852987-17-8

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *

```
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10716183.str

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 19:05:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     52 TO ITERATE

100.0% PROCESSED      52 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          608 TO     1472
PROJECTED ANSWERS:               1 TO       80

L2            1 SEA SSS SAM L1

=> search l1
ENTER TYPE OF SEARCH (SSS), CSS, FAMILY, OR EXACT:.
ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:full
FULL SEARCH INITIATED 19:05:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1047 TO ITERATE

100.0% PROCESSED    1047 ITERATIONS                              67 ANSWERS
SEARCH TIME: 00.00.01

L3           67 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               169.93     170.41

FILE 'CAPLUS' ENTERED AT 19:05:47 ON 27 JUN 2005
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FILE COVERS 1907 - 27 Jun 2005 VOL 143 ISS 1
FILE LAST UPDATED: 26 Jun 2005 (20050626/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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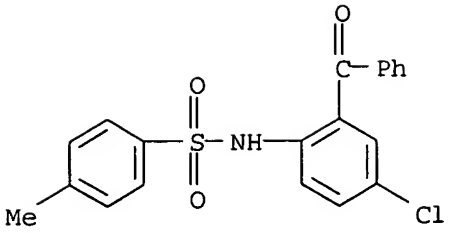
L4 64 L3

=> d l3 fbib ab hitstr 1-64
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> d l4 fbib ab hitstr 1-64

L4 ANSWER 1 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:600752 CAPLUS
DN 141:277444
TI New synthesis of 3-substituted indoles using lithium trimethylsilyldiazomethane
AU Miyagi, Takashi; Hari, Yoshiyuki; Aoyama, Toyohiko
CS Graduate School of Pharmaceutical Sciences, Nagoya City University, Mizuho-ku, Nagoya, 467-8603, Japan
SO Tetrahedron Letters (2004), 45(33), 6303-6305
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier
DT Journal
LA English
OS CASREACT 141:277444
AB Lithium trimethylsilyldiazomethane smoothly reacted with N-tosyl-o-acylanilines to give 3-substituted indoles in good to high yields.
IT **4873-59-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of 3-substituted indoles through intramol. N-H insertion of lithium trimethylsilyldiazomethane on N-tosyl-o-acylanilines)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:565050 CAPLUS
DN 141:123471
TI Preparation of arylsulfonamide substituted carboxylic acids as asthma and allergic inflammation modulators
IN Fu, Zice; Huang, Xi Alan; Liu, Jiwen; Medina, Julio C.; Schmitt, Michael J.; Tang, Lucy H.; Wang, Yingcai; Xu, Qingge
PA Tularik, Inc., USA
SO PCT Int. Appl., 132 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004058164	A2	20040715	WO 2003-US40617	20031219
WO 2004058164	A3	20040826		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

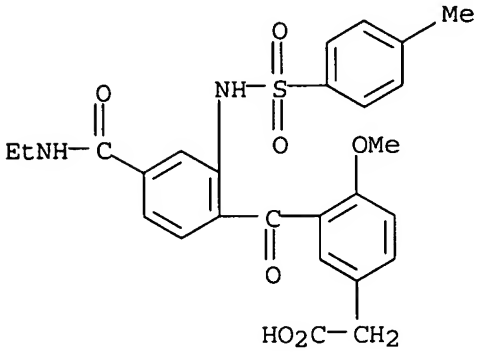
			US 2002-435366P	P 20021220
US 2004220237	A1	20041104	US 2003-742281	20031219
			US 2002-435366P	P 20021220

OS MARPAT 141:123471
AB Title compds. I [Y = SO0-2; X = O, SO0-2; R2 = (un)substituted phenyl; R3, R5 = H, halo, alkyl, fluoroalkyl, etc.; R4 = H, carboxamido, etc.; R6 = H, halo, alkyl, fluoroalkyl, etc.; R10 = H, alkyl, fluoroalkyl, etc.; L = alkylene, heteroalkylene, etc.; Z = carboxy, carboxamido, etc.; R14 = halo, alkyl, fluoroalkyl, etc.] are prepared For instance, [4-(2-nitro-4-trifluoromethylphenoxy)phenyl]acetic acid Me ester (preparation given) is reduced to the corresponding aniline (MeOH, H2-Pd/C), sulfonylated with TsCl and saponified (MeOH/H2O, LiOH) to give II. II has IC50 < 15 μM for the CRTH2 receptor. I modulate the function and/or expression of proteins involved in atopic diseases, inflammatory conditions and cancer.
IT **721947-94-0P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of arylsulfonamide substituted carboxylic acids as asthma and

allergic inflammation modulators)

RN 721947-94-0 CAPLUS

CN Benzeneacetic acid, 3-[4-[(ethylamino)carbonyl]-2-[[(4-methylphenyl)sulfonyl]amino]benzoyl]-4-methoxy- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:950984 CAPLUS

DN 140:5067

TI Preparation of N-heteroaryl- and N-arylbenzenesulfonamide and -heterocyclesulfonamides as chemokine CCR9 inhibitors as antiinflammatory agents

IN Fleming, Paul; Harriman, Geraldine C. B.; Shi, Zhan; Chen, Shaowu

PA Millennium Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 110 pp.
CODEN: PIXXD2

PCT case showing species.

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003099773	A1	20031204	WO 2003-US16090	20030521
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			US 2002-383573P	P 20020524
CA 2485681	AA	20031204	CA 2003-2485681	20030521
			US 2002-383573P	P 20020524
			WO 2003-US16090	W 20030521
US 2004038976	A1	20040226	US 2003-443155	20030521
			US 2002-383573P	P 20020524
EP 1507756	A1	20050223	EP 2003-755422	20030521
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
			US 2002-383573P	P 20020524
			WO 2003-US16090	W 20030521

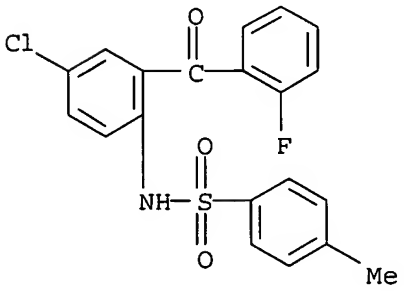
OS MARPAT 140:5067

AB The title compds. [I; Y is C(O), O, S, S(O), or S(O)2; X1, X2, and X3 are

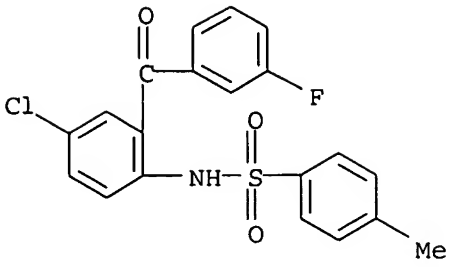
each, independently, N or CR, provided that at least one of X1, X2, or X3 is CR; R for each occurrence and R1 are each, independently, H or a substituent; R6 is H, an aliphatic carbonyl group, or an aliphatic ester; ring A is substituted or unsubstituted; and Ar1 and Ar2 are each, independently, an (un)substituted aryl or heteroaryl] or pharmaceutically acceptable salts, solvates or hydrates thereof are prepared These compds. I can bind to CCR9 receptors and block the binding of a ligand (e.g., TECK) to the receptors. The invention also relates to a method of inhibiting a function of CCR9, in particular treating or preventing an inflammatory disease or condition and to the use the compds. I in research, therapeutic, prophylactic, and diagnostic methods. CCR9 and its associated chemokine TECK, have been implicated in chronic inflammatory diseases, such as inflammatory bowel diseases. Small mol. inhibitors of the interaction between CCR9 and its ligands (e.g., TECK), such as the compds. I, are useful for inhibiting harmful inflammatory processes triggered by receptor-ligand interactions and thus are useful for treating diseases mediated by CCR9, such as chronic inflammatory diseases. For example, 14 compds. including N-(2-benzoyl-4-bromophenyl)-4-methoxybenzenesulfonamide, 5-(oxazol-5-yl)thiophene-2-sulfonic acid (2-benzoyl-4-chlorophenyl)amine inhibited the binding of human TECK to human CCR9 receptors with IC50 value less than or equal to .apprx.1.0 μM.

IT **747-99-9P 859-04-1P 94579-32-5P**
169263-18-7P 169263-19-8P 169263-20-1P
314054-05-2P 392305-39-4P 628300-39-0P
628300-40-3P 628300-41-4P 628300-43-6P
628300-44-7P 628300-46-9P 628300-48-1P
628300-49-2P 628300-98-1P 628301-02-0P
628301-08-6P 628301-16-6P 628301-20-2P
628301-22-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-heteroaryl- and N-arylbenzenesulfonamide and -heterocyclesulfonamides as chemokine CCR9 inhibitors as antiinflammatory agents)

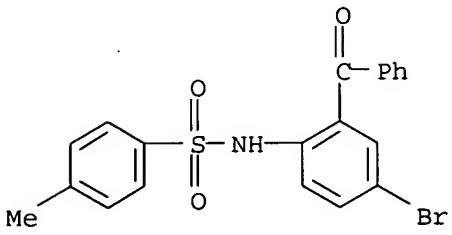
RN 747-99-9 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



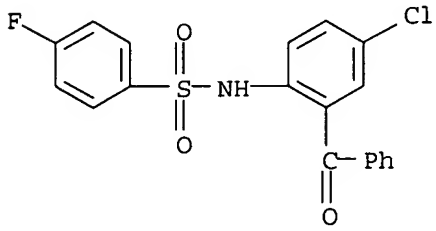
RN 859-04-1 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(3-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



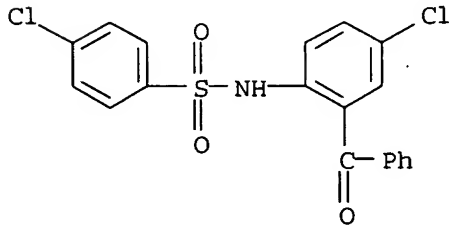
RN 94579-32-5 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-bromophenyl)-4-methyl- (9CI) (CA INDEX NAME)



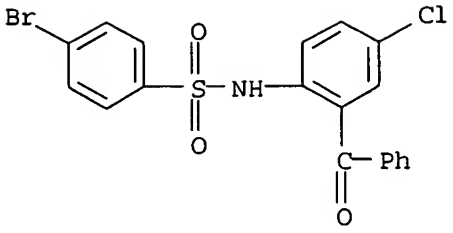
RN 169263-18-7 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-fluoro- (9CI) (CA INDEX NAME)



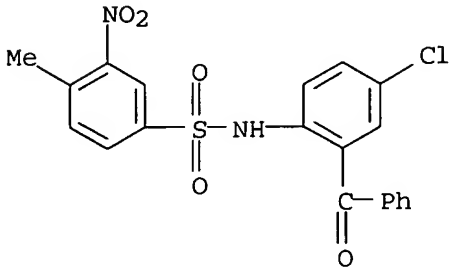
RN 169263-19-8 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-chloro- (9CI) (CA INDEX NAME)



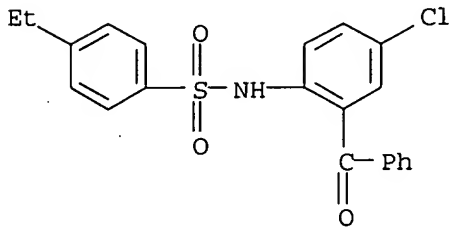
RN 169263-20-1 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-bromo- (9CI) (CA INDEX NAME)



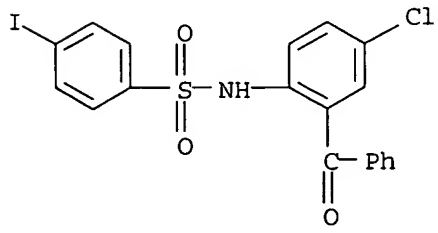
RN 314054-05-2 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-3-nitro- (9CI) (CA INDEX NAME)



RN 392305-39-4 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-ethyl- (9CI) (CA INDEX NAME)

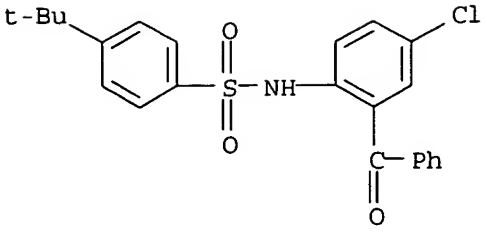


RN 628300-39-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-iodo- (9CI) (CA INDEX NAME)

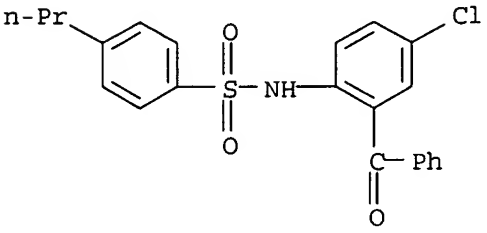


RN 628300-40-3 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-(1,1-dimethylethyl)-

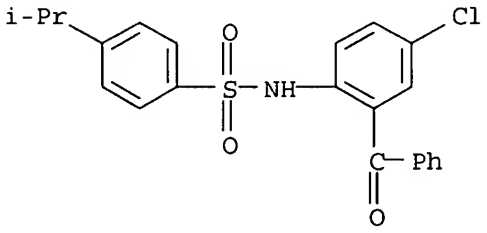
(9CI) (CA INDEX NAME)



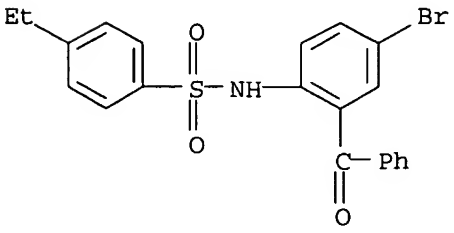
RN 628300-41-4 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-propyl- (9CI) (CA INDEX NAME)



RN 628300-43-6 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-(1-methylethyl)- (9CI) (CA INDEX NAME)

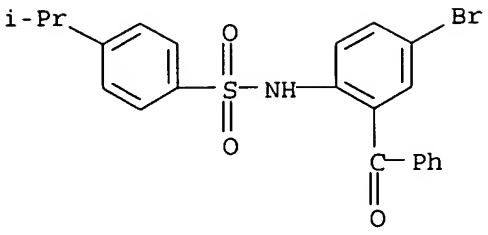


RN 628300-44-7 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-bromophenyl)-4-ethyl- (9CI) (CA INDEX NAME)

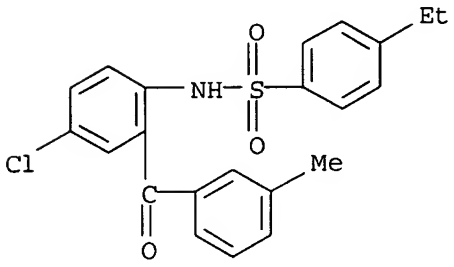


RN 628300-46-9 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-bromophenyl)-4-(1-methylethyl)- (9CI)

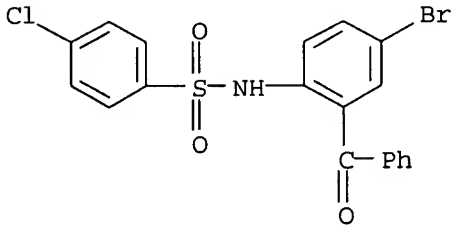
(CA INDEX NAME)



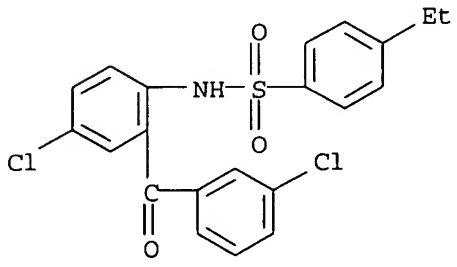
RN 628300-48-1 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(3-methylbenzoyl)phenyl]-4-ethyl- (9CI) (CA INDEX NAME)



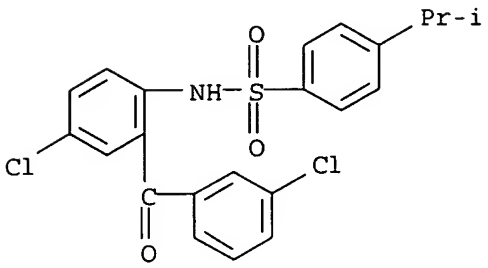
RN 628300-49-2 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-bromophenyl)-4-chloro- (9CI) (CA INDEX NAME)



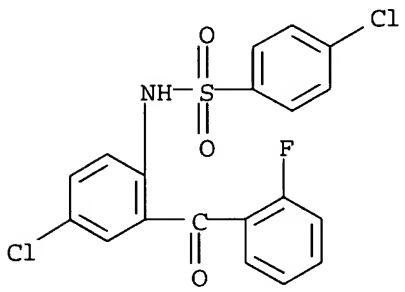
RN 628300-98-1 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(3-chlorobenzoyl)phenyl]-4-ethyl- (9CI) (CA INDEX NAME)



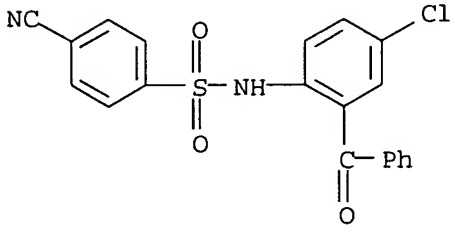
RN 628301-02-0 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(3-chlorobenzoyl)phenyl]-4-(1-methylethyl)- (9CI) (CA INDEX NAME)



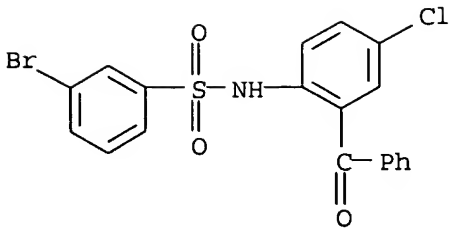
RN 628301-08-6 CAPLUS
CN Benzenesulfonamide, 4-chloro-N-[4-chloro-2-(2-fluorobenzoyl)phenyl]- (9CI) (CA INDEX NAME)



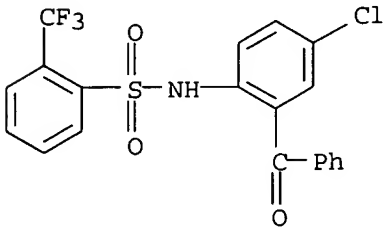
RN 628301-16-6 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-cyano- (9CI) (CA INDEX NAME)



RN 628301-20-2 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-3-bromo- (9CI) (CA INDEX NAME)



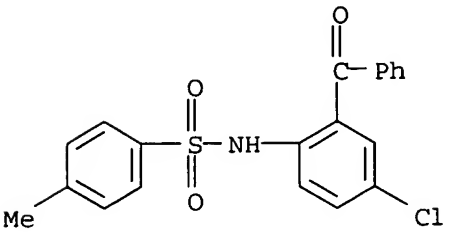
RN 628301-22-4 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-2-(trifluoromethyl)-(9CI) (CA INDEX NAME)



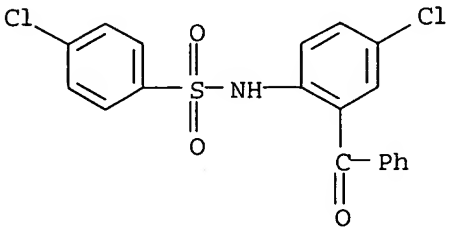
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:533368 CAPLUS
DN 139:230297
TI 1H, 13C and 15N NMR spectral and X-ray structural studies of 2-arylsulfonylamino-5-chlorobenzophenones
AU Kolehmainen, E.; Nissinen, M.; Janota, H.; Gawinecki, R.; Osmialowski, B.
CS Department of Chemistry, University of Jyvaeskylae, Jyvaeskylae, FIN-40014, Finland
SO Polish Journal of Chemistry (2003), 77(7), 889-894
CODEN: PJCHDQ; ISSN: 0137-5083
PB Polish Chemical Society
DT Journal
LA English
AB Six 2-(4-R-phenylsulfonylamino)-5-chlorobenzophenones were prepared and their 1H, 13C and 15N NMR spectra recorded and assigned. The dependence between the chemical shift of the amide proton and Hammett σ substituent consts. is of the V type. Substituent effect on the chemical shift of the amide nitrogen atom was found insignificant. X-ray anal. shows that the terminal benzene rings in 2-(4-nitrophenylsulfonylamino)-5-chlorobenzophenone are located close to each other. They are not, however, parallel, dihedral angle between them being equal to 10.86 deg (MP2/6-31G**//HF/6-31G** ab initio calcns. show this to be 20.44 deg). This shows that the mutual orientation of two benzene rings in the mol. of this compound is caused by the π-π stacking. It is addnl. reinforced by the intramol. NH···O:C hydrogen bond. Except the dihedral angle between the benzene rings, X-ray determined structure of 2-(4-nitrophenylsulfonylamino)-5-chlorobenzophenone is very similar to this optimized by the ab initio calcns.
IT **4873-59-0 169263-19-8 169263-20-1**
RL: PRP (Properties)
(proton, carbon-13, and nitrogen-15 NMR and crystallog. study of 2-arylsulfonylamino-5-chlorobenzophenones)

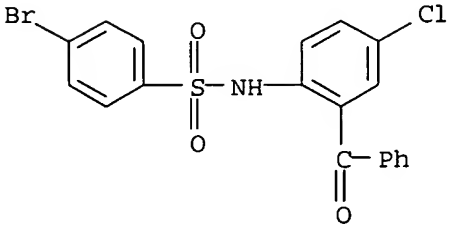
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 169263-19-8 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-chloro- (9CI) (CA INDEX NAME)



RN 169263-20-1 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-bromo- (9CI) (CA INDEX NAME)



RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

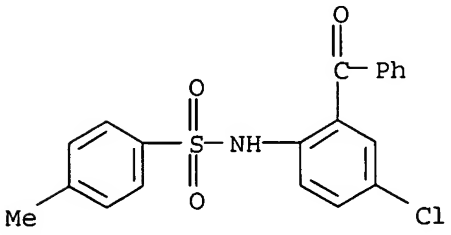
L4 ANSWER 5 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:861062 CAPLUS
DN 139:197300
TI Product class 13: indole and its derivatives
AU Joule, J. A.
CS Department of Chemistry, University of Manchester, Manchester, M13 9PL, UK
SO Science of Synthesis (2001), 10, 361-652
CODEN: SSCYJ9
PB Georg Thieme Verlag
DT Journal; General Review
LA English
AB A review of preparation of indoles and its derivs. Covered reactions include

cyclization, ring transformation, aromatization and substituent modifications. Subclasses covered include 1H-indol-1-ols, 1,3-dihydro-2H-indol-2-ones, and 1,2-dihydro-3H-indol-3-ones.

IT **4142-76-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(review of preparation of indoles and analogs thereof via cyclization, ring transformation, aromatization and substituent modifications)

RN 4142-76-1 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)



● Na

RE.CNT 1348 THERE ARE 1348 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:18962 CAPLUS
DN 134:86383
TI Preparation and effect of phosphonic acid diester derivatives as antidiabetics
IN Miyata, Kazuyoshi; Tsuda, Yoshihiko; Inoue, Yasuhide
PA Ohtsuka Pharmaceutical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

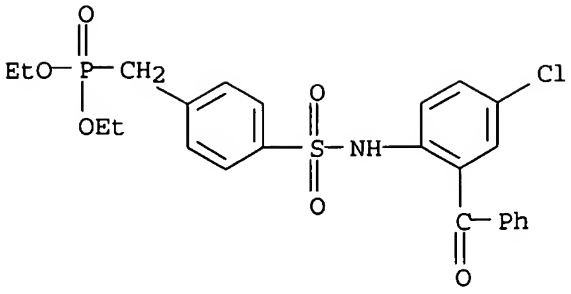
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001002687	A2	20010109	JP 1999-172175	19990618
			JP 1999-172175	19990618

OS MARPAT 134:86383
AB Title compds. [ANR3SO2Q(CH2)nP(:O)(OR1)(OR2); A = 2-CH3NHCO-3-ClC6H3, 2-CH3NHCO-3-FC6H3, 2-CH3NHCOC6H4, 2-CH3OCO-4-CH3OCOC6H3, 2-CH3CO-4-BrC6H3, 2-CH3NHCO-5-ClC6H3, 2-HOOCC6H4; R1 = H, CH3CH2; R2 = H, CH3CH2; R3 = H, CH3, C6H5CH2; Q(CH2)n = 4-C6H4CH2, 4-C6H4CH2CH2, (CH2)2, (CH2)3] are prepared as antidiabetics with ability of lowering the blood sugar level. Thus, the title compound I was prepared and tested.

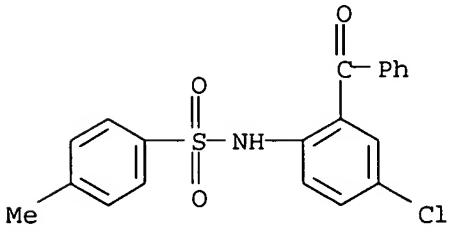
IT **316380-07-1P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Preparation and effect of phosphonic acid diester derivs. as antidiabetics)

RN 316380-07-1 CAPLUS

CN Phosphonic acid, [[4-[[(2-benzoyl-4-chlorophenyl)amino]sulfonyl]phenyl]methyl]-, diethyl ester (9CI) (CA INDEX NAME)



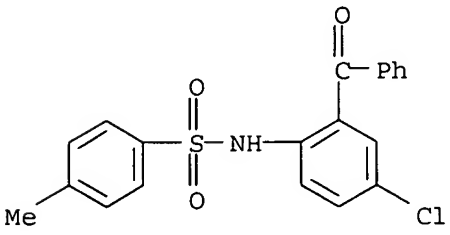
L4 ANSWER 7 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:446552 CAPLUS
DN 133:266698
TI Synthesis and characterization of substances related to nifedipine and diazepam to establish them as official standards
AU Sorla A., Olivia; Perez M., Herminia I.; Manjarrez A., Norberto; Cejundo U., Blanca L.
CS Mex.
SO Revista Mexicana de Ciencias Farmaceuticas (2000), 31(1), 7-10
CODEN: RMCFDT; ISSN: 1027-3956
PB Asociacion Farmaceutica Mexicana
DT Journal
LA Spanish
AB 4-(2-Nitrosophenyl)-3,5-dicarbomethoxy-2,6-dimethylpyridine and 4-(2-nitrophenyl)-3,5-dicarbomethoxy-2,6-dimethylpyridine (substances related to nifedipine) and 2-methylamino-5-chlorobenzophenone and 7-chloro-1,3-dihydro-5-phenyl-2H-1,4-benzodiazepin-2-one (substances related to diazepam) were prepared and characterized for the Mexican National Laboratory of Public Health to be further established as official stds.
IT **4873-59-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and characterization of substances related to nifedipine and diazepam)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



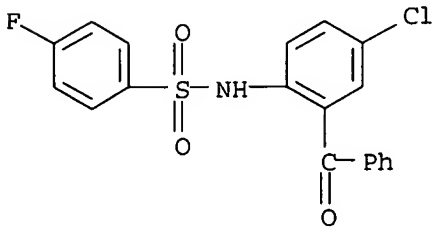
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:811922 CAPLUS
DN 123:285437

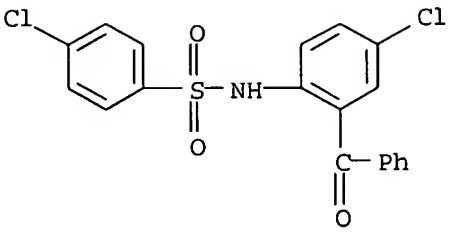
TI Synthesis of substituted amides and their bioactivity
AU Wu, Jingping; Chen, Fuheng
CS Department of Applied Chemistry, Beijing Agricultural University, Beijing, 100094, Peop. Rep. China
SO Yingyong Huaxue (1995), 12(4), 80-3
CODEN: YIHUED; ISSN: 1000-0518
PB Yingyong Huaxue Bianji Weiyuanhui
DT Journal
LA Chinese
AB Thirty substituted amides e.g. 2,4-RClC6H3NHXR1 (R = Bz, PhCHOH, R1 = substituted Ph; X = CO, SO2) have been synthesized from 5-chloro-2-aminobenzophenone. Most of the compds. showed an inhibition effect on rice growth.
IT **4873-59-0P 169263-18-7P 169263-19-8P**
169263-20-1P 169263-21-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of substituted amides and their plant growth regulator activity)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



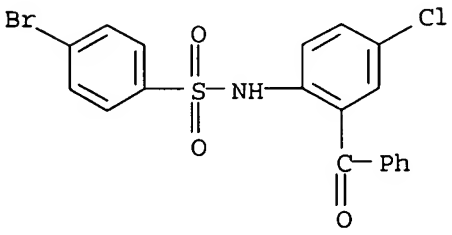
RN 169263-18-7 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-fluoro- (9CI) (CA INDEX NAME)



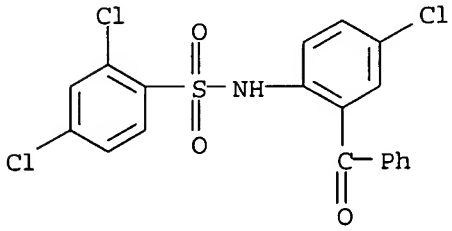
RN 169263-19-8 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-chloro- (9CI) (CA INDEX NAME)



RN 169263-20-1 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-bromo- (9CI) (CA INDEX NAME)



RN 169263-21-2 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:777639 CAPLUS
DN 123:198616
TI Preparation of N-sulfonylindoline derivatives with affinity for vasopressin and oxytocin receptors
IN Wagnon, Jean; de Cointet, Paul; Nisato, Dino; Plouzane, Claude; Sereadeil-Legal, Claudine; Tonnerre, Bernard
PA Elf Sanofi SA, Fr.
SO U.S., 50 pp. Cont.-in-part of U.S. Ser. No.737,655, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 5338755	A	19940816	US 1992-923839		19920803
				FR 1990-9778	A	19900731
				US 1991-737655	B2	19910730
				FR 1991-9908	A	19910802

FR 2665441	A1	19920207	FR 1990-9778		19900731
FR 2665441	B1	19921204			
IL 114934	A1	19960804	IL 1991-114934		19910730
			FR 1990-9778	A	19900731
			IL 1991-99012	A3	19910730
HU 219351	B	20010328	HU 1971-99045		19910731
			FR 1990-9778	A	19900731
			HU 1991-2552	A	19910731
FR 2679903	A1	19930205	FR 1991-9908		19910802
FR 2679903	B1	19931203			
AU 9224758	A1	19930302	AU 1992-24758		19920731
AU 658664	B2	19950427			
			FR 1991-9908	A	19910802
			WO 1992-FR758	A	19920731
BR 9205336	A	19931116	BR 1992-5336		19920731
			FR 1991-9908	A	19910802
			WO 1992-FR758	A	19920731
JP 06501960	T2	19940303	JP 1993-503337		19920731
			FR 1991-9908	A	19910802
			WO 1992-FR758	W	19920731
RU 2104268	C1	19980210	RU 1993-5168		19920731
			FR 1991-9908	A	19910802
			WO 1992-FR758	W	19920731
IL 117592	A1	19990411	IL 1992-117592		19920731
			FR 1991-9908	A	19910802
			IL 1992-102703	A3	19920731
CZ 288173	B6	20010516	CZ 1993-682		19920731
			FR 1991-9908	A	19910802
			CS 1993-682	A	19920731
CA 2206776	C	20020226	CA 1992-2206776		19920731
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			CA 1992-2093221	A3	19920731
SK 283463	B6	20030805	SK 1993-426		19920731
			FR 1991-9908	A	19910802
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NO 180047	B	19961028			
NO 180047	C	19970205			
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			WO 1992-FR758	W	19920731
FI 104069	B1	19991115	FI 1993-1476		19930401
			FR 1991-9908	A	19910802
			WO 1992-FR758	W	19920731
US 5397801	A	19950314	US 1994-240360		19940510
			FR 1990-9778	A	19900731
			US 1991-737655	B2	19910730
			FR 1991-9908	A	19910802
			US 1992-923839	A3	19920803
US 5481005	A	19960102	US 1994-348150		19941128
			FR 1990-9778	A	19900731
			US 1991-737655	B2	19910730
			FR 1991-9908	A	19910802
			US 1993-923839	A3	19930803
			US 1994-240360	A3	19940510
US 5578633	A	19961126	US 1995-458614		19950602
			FR 1990-9778	A	19900731
			US 1991-737655	B2	19910730
			FR 1991-9908	A	19910802
			US 1992-923839	A3	19920803
			US 1994-240360	A3	19940510

				US 1994-348150	A3	19941128
	FI 9800175	A	19980127	FI 1998-175		19980127
	FI 107048	B1	20010531			
				FR 1991-9908	A	19910802
				WO 1992-FR758	W	19920731
				FI 1993-1476	A	19930401

PATENT FAMILY INFORMATION:

FAN 1992:214341

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
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PI	EP 469984	A2	19920205	EP 1991-402123		19910730
	EP 469984	A3	19920311			
	EP 469984	B1	19951018			
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE					
				FR 1990-9778	A	19900731
	FR 2665441	A1	19920207	FR 1990-9778		19900731
	FR 2665441	B1	19921204			
	FI 9103614	A	19920201	FI 1991-3614		19910729
	FI 97224	B	19960731			
	FI 97224	C	19961111			
				FR 1990-9778	A	19900731
	CA 2048139	AA	19920201	CA 1991-2048139		19910730
	CA 2048139	C	20020212			
				FR 1990-9778	A	19900731
	NO 9102970	A	19920203	NO 1991-2970		19910730
	NO 175254	B	19940613			
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			FR 1991-9908	A	19910802
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AU 9511541	A1	19950504	AU 1995-11541		19950203
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FI 107048	B1	20010531			
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			WO 1992-FR758	W	19920731
			FI 1993-1476	A	19930401

OS MARPAT 123:198616

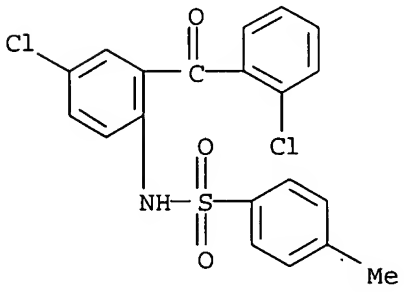
AB Title compds. I (R'1 = halo, C1-4 alkyl, HO, C1-4 alkoxy, PhCH2O, NC, F3C, O2N, H2N; R'2 = C1-6 alkyl, C3-7 cycloalkyl, C5-7 cycloalkylene,(substituted) Ph, etc.; R'3 = H; R'4 = H2NCO, R'6R'7NCO wherein R'6R'7N = saturated 5-membered substituted N-heterocyclyl; R'5 = C1-4 alkyl, 1-, 2-naphthyl, (substituted) Ph, etc.; n = m = 0-2) or a salt thereof, are prepared CH2BrCONMe2 (preparation given) and 5-chloro-2-(tosylamino)phenyl cyclohexyl ketone were reacted to give 2-[N-tosyl-N-(dimethylcarbamoylmethyl)amino]-5-(chlorophenyl) cyclohexyl ketone which in THF was treated with Li diisopropylamide to give after workup trans-I (R'1n = 5-Cl, R'2 = cyclohexyl, R'3 = H, R'4 = Me2NCO, R'5 = 4-MeC6H4, m = 0). The IC50 of I affinity for oxytocin receptors was 10-5-10-8M.

IT **5649-39-8**

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of N-sulfonylindoline derivs. with affinity for vasopressin and oxytocin receptors)

RN 5649-39-8 CAPLUS

CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



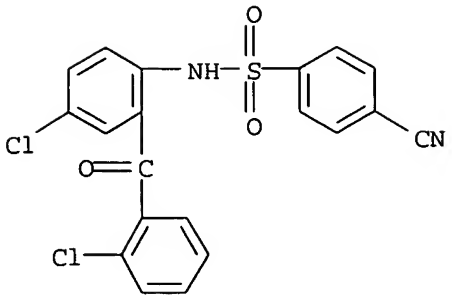
IT **140916-59-2P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-sulfonylindoline derivs. with affinity for vasopressin and oxytocin receptors)

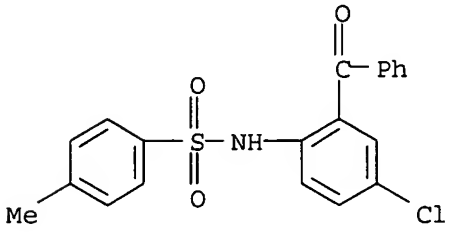
RN 140916-59-2 CAPLUS

CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-cyano- (9CI)

(CA INDEX NAME)



L4 ANSWER 10 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1993:147270 CAPLUS
DN 118:147270
TI Antiarrhythmic amidinohydrazones of substituted benzophenones. Part 1: synthesis of new amidinohydrazones and N-phenylamidinohydrazones of substituted benzophenones
AU Richter, P. H.; Kasbohm, K.; Besch, A.; Hagen, A.
CS Fachbereich Pharm., Ernst-Moritz-Arndt-Univ., Greifswald, Germany
SO Pharmazie (1992), 47(10), 758-64
CODEN: PHARAT; ISSN: 0031-7144
DT Journal
LA German
AB Title compds. I (R = NH2, NMe2, NHBz, NHCO2Et, NHSO2Me, NHSO2C6H4Me-4, Br, CO2H, Cl, OH, OMe, NO2, Me, F, NHMe; R1 = H, NH2, Br, Cl, Me, NO2, OH, NMe2; R2 = H, Cl, Me, OH, NO2, NH2, NMe2; R3 = H, Ph) (70 compds.) were prepared, mostly from the ketones and H2NNHC(=NH)NHR3.
IT **4873-59-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aminoguanidine)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1992:214341 CAPLUS
DN 116:214341
TI Preparation of 1-arylsulfonyl-3-hydroxyindoline-2-carboxylates and analogs as vasopressin and oxytocin receptor ligands
IN Wagnon, Jean; De Cointet, Paul; Nisato, Dino; Plouzane, Claude; Serradeil-Legal, Claudine
PA Sanofi SA, Fr.
SO Eur. Pat. Appl., 44 pp.

CODEN: EPXXDW
DT Patent
LA French
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 469984	A2	19920205	EP 1991-402123	19910730
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	EP 469984	B1	19951018		
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	FI 9103614	A	19920201	FI 1991-3614	19910729
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	IL 114934	A1	19960804	IL 1991-114934	19910730
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	US 5481005	A	19960102	US 1994-348150	19941128
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				FR 1991-9908 A	19910802
				US 1993-923839 A3	19930803
				US 1994-240360 A3	19940510

PATENT FAMILY INFORMATION:
FAN 1993:539091

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

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FAN 1995:777639

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			FR 1991-9908	A	19910802
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			US 1994-348150	A3	19941128
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			WO 1992-FR758	W	19920731
			FI 1993-1476	A	19930401

OS MARPAT 116:214341

AB Title compds. [I; R1 = halo, alkyl, alkoxy, PhCH2O, etc.; R2 = (cyclo)alkyl, cycloalkenyl, (substituted) Ph; R3 = H, alkyl; R4 = CO2H, alkoxycarbonyl, CO2CH2Ph, (substituted) CONH2; R5 = alkyl, naphthyl, (substituted) Ph, etc.; m, n = 0-2] were prepared Thus, 4,2-Cl(R2CO)C6H3R (R2 = cyclohexyl) (II; R = NH2) was condensed with 1-naphthylsulfonyl chloride and the product condensed with BrCH2CO2Et to give II [R = N(CH2CO2Et)SO2R5; R5 = 1-naphthyl] which was treated with NaOMe/MeOH to give title compound III (cis and trans isomers). I had IC50 of .apprx.10-7M against oxytocin binding with a membrane preparation from pregnant rats.

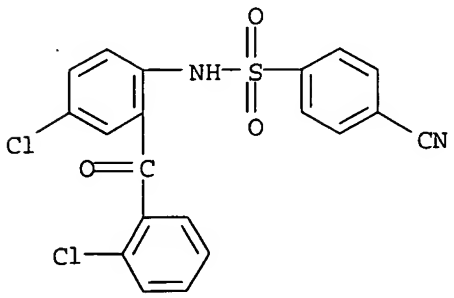
IT **140916-59-2P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

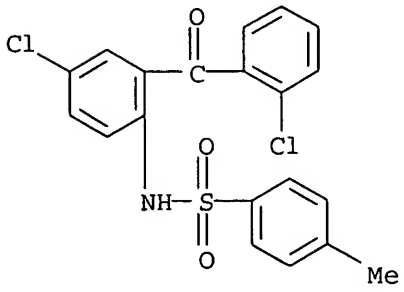
(preparation and reaction of, in preparation of vasopressin and oxytocin receptor ligands)

RN 140916-59-2 CAPLUS

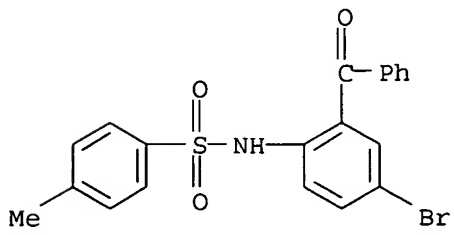
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-cyano- (9CI) (CA INDEX NAME)



IT **5649-39-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of vasopressin and oxytocin receptor ligands)
RN 5649-39-8 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1992:140597 CAPLUS
DN 116:140597
TI Crystal and molecular structure of 2-N-tosylamino-5-bromobenzophenone
AU Gifeisman, T. Sh.; Dvorkin, A. A.; Simonov, Yu. A.; Andronati, S. A.; Pavlovskii, V. I.; Yavorskii, A. S.
CS Inst. Prikl. Fiz., Kishinev, USSR
SO Zhurnal Strukturnoi Khimii (1991), 32(5), 148-50
CODEN: ZSTKAI; ISSN: 0136-7463
DT Journal
LA Russian
AB The title compound is monoclinic, space group 21/b, with a 10.681(4), b 19.462(8), c 8.959(4) Å, and γ 95.99(2)°; d. (calculated) = 1.543 for Z = 4. Final R = 0.081 for 1298 reflections. Atomic coordinates are given. There is a strong intramol. H bond N-H...O. Substitution on the amino group has little affect on the configuration of the central part of the mol.
IT **94579-32-5**, 2-N-Tosylamino-5-bromobenzophenone
RL: PRP (Properties)
(crystal structure of)
RN 94579-32-5 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-bromophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 13 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1990:497463 CAPLUS
DN 113:97463

TI Preparation of (phenylureido)phenylquinolines as acyl-CoA:cholesterol acyltransferase (ACAT) inhibitors

IN Meguro, Kanji; Ikeda, Hitoshi

PA Takeda Chemical Industries, Ltd., Japan

SO Eur. Pat. Appl., 56 pp.
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 354994	A2	19900221	EP 1989-112683	19890711
	EP 354994	A3	19910515		
	EP 354994	B1	19950125		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
				JP 1988-174137 A	19880712
				JP 1988-214266 A	19880829
				JP 1989-75925 A	19890327
	IL 90815	A1	19930708	IL 1989-90815	19890630
				JP 1988-174137 A	19880712
				JP 1988-214266 A	19880829
				JP 1989-75925 A	19890327
	JP 03007259	A2	19910114	JP 1989-174390	19890706
	JP 07053714	B4	19950607		
				JP 1988-174137 A1	19880712
				JP 1988-214266 A1	19880829
				JP 1989-75925 A1	19890327
	NO 8902851	A	19900115	NO 1989-2851	19890710
	NO 177300	B	19950515		
	NO 177300	C	19950823		
				JP 1988-174137 A	19880712
				JP 1988-214266 A	19880829
				JP 1989-75925 A	19890327
	FI 8903361	A	19900113	FI 1989-3361	19890711
	FI 93353	B	19941215		
	FI 93353	C	19950327		
				JP 1988-174137 A	19880712
				JP 1988-214266 A	19880829
				JP 1989-75925 A	19890327
	AU 8938025	A1	19900118	AU 1989-38025	19890711
	AU 616542	B2	19911031		
				JP 1988-174137 A	19880712
				JP 1988-214266 A	19880829
				JP 1989-75925 A	19890327
	CN 1039416	A	19900207	CN 1989-104812	19890711
	CN 1028754	B	19950607		
				JP 1988-174137 A	19880712
				JP 1989-75925 A	19890327
	HU 52059	A2	19900628	HU 1989-3485	19890711
	HU 210861	B	19950828		
				JP 1988-174137 A	19880712
	CA 1333068	A1	19941115	CA 1989-605291	19890711
				JP 1988-174137 A	19880712
				JP 1988-214266 A	19880829
				JP 1989-75925 A	19890327
	ES 2066808	T3	19950316	ES 1989-112683	19890711
				JP 1988-174137 A	19880712
				JP 1988-214266 A	19880829
				JP 1989-75925 A	19890327
	DK 8903459	A	19900113	DK 1989-3459	19890712

			JP 1988-174137	A	19880712
			JP 1988-214266	A	19880829
			JP 1989-75925	A	19890327
ZA 8905305	A	19900530	ZA 1989-5305		19890712
			JP 1988-174137	A	19880712
SU 1838301	A3	19930830	SU 1989-4742609		19891208
			JP 1988-174137	A	19880712
			JP 1989-75925	A	19890327
US 5254565	A	19931019	US 1991-807813		19911216
			JP 1988-174137	A	19880712
			JP 1988-214266	A	19880829
			JP 1989-75925	A	19890327
			US 1989-377136	B1	19890710

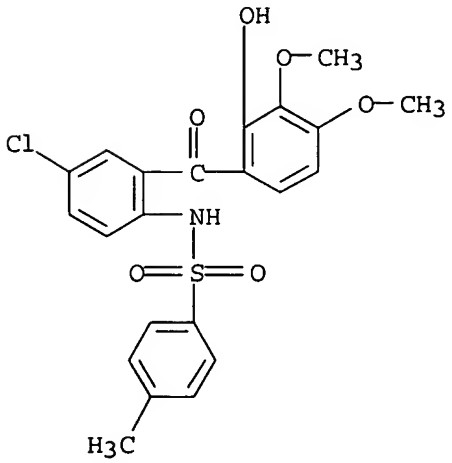
OS MARPAT 113:97463

AB The title compds. [I; R = H, alkyl, aralkyl; R1-R3 = H, 1-4 halo, (halo)alkyl, alkoxy, alkylthio, (un)esterified CO2H NO2, OH, C1-4 acyloxy, C1-3 acyl; m, n = 0, 1] or their pharmaceutically acceptable salts and carriers or diluents, useful for preventing and treating hypercholesterolemia, atherosclerosis, myocardial and cerebral infarction, cerebral apoplexy, etc., were prepared, e.g., by an addition reaction of 3-aminoquinolines with isocyanates C6H5(CH2)nNCO (n as defined). A mixture of 3-amino-6-chloro-4-phenylquinoline and 2,4-F2C6H3NCO in THF was allowed to stand 20 h at room temperature to give 77.8% I (R = R2 = H, R1 = 6-Cl, R3 = 2,4-F2, m = n = 0) (II). In rats, 10-6M II inhibited 88.3% production of the labeled cholesterol ester from [1-14C]oleoyl-CoA and endogenous cholesterol. Three other I in cholesterol fed rats reduced plasma cholesterol level from 240 ± 85 mg/dL for the control to 119 ± 46 - 143 ± 21 mg/dL. A tablet containing I was formulated.

IT **128832-47-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of anticholesteremic)

RN 128832-47-3 CAPLUS

CN Benzenesulfonamide, N-[4-chloro-2-(2-hydroxy-3,4-dimethoxybenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 14 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1988:195923 CAPLUS

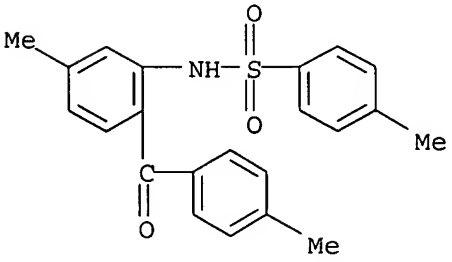
DN 108:195923

TI Electrophotographic photoreceptor containing bisazo compound as

charge-generating substance
IN Hirose, Hisahiro; Kinoshita, Akira; Sawada, Kiyoshi; Yamazaki, Hiroshi; Watanabe, Kazumasa
PA Konica Co., Japan
SO Jpn. Kokai Tokkyo Koho, 35 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 62269146	A2	19871121	JP 1986-113286	19860516
			JP 1986-113286	19860516

AB In an electrophotog. photoreceptor containing a bisazo compound as a charge-generating substance, the bisazo compound is at least partially aggregated and the visible maximum absorption peak of the aggregate is ≥100 nm longer than that of the bisazo compound The preferable bisazo compound has the general formula I [A = Y or N:CHY; Y = (substituted) aromatic group; Q1 = :CQ2Q3; Q2, Q3 = H, CN, alkyl, (substituted) aromatic group, halogen, vinyl, acyl or ester, or Q2 and Q3 may form a ring with other group; P1, P2 = H, Me, methoxy]. The electrophotog. photoreceptor shows excellent chargeability and storage stability.
IT **114190-46-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, electrophotog. charge-generating substance from)
RN 114190-46-4 CAPLUS
CN Benzenesulfonamide, 4-methyl-N-[5-methyl-2-(4-methylbenzoyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1988:131304 CAPLUS
DN 108:131304
TI 2-Arylsulfonamidobenzophenones and -acetophenones and their oximes
IN Schewe, Tankred; Rapoport, Samuel Mitja; Beger, Joerg; Kuehn, Hartmut; Binte, Hans Joachim; Slapke, Juergen
PA VEB Fahlberg-List, Ger. Dem. Rep.
SO Ger. Offen., 44 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 3544409	A1	19861016	DE 1985-3544409	19851216
			DD 1984-271462 A2	19841221

DD 251126	A1	19871104	DD 1984-271462		19841221
CH 670389	A	19890615	CH 1985-5505		19851223
			DD 1984-271462	A	19841221

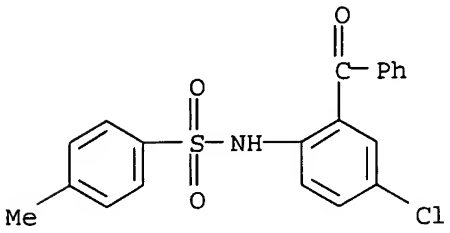
OS CASREACT 108:131304

AB The title compds. (I; R = Me, Ph, p-substituted Ph; R1 = H, alkyl, alkoxy, amino, acylamino; R2 = H, halo, NO2, amino, acylamino; X = O, oximino) were prepared as lipoxygenase and cyclooxygenase inhibitors. Thus, 0.02 mol 2-(p-methoxybenzenesulfonamido)acetophenone in EtOH was treated with 0.044 mol NH2OH.HCl in pyridine and the mixture was refluxed for 3 h to give 90% I (R = Me, R1 = 4-MeO, X = NOH, R2 = H) which at 50 μM showed 80% inhibition of arachidonic acid-induced contractions in guinea pigs vs. 30% for benoxaprofen.

IT **4873-59-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as cyclooxygenase and lipoxygenase inhibitor)

RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1987:598158 CAPLUS

DN 107:198158

TI Synthesis and pharmacological activities of 3-phenylindazole derivatives

AU Fujimura, Yasuo; Ikeda, Yugo; Matsunaga, Isao

CS Cent. Res. Lab., Chugai Pharm. Co., Ltd., Tokyo, 171, Japan

SO Yakugaku Zasshi (1986), 106(11), 995-1001
CODEN: YKKZAJ; ISSN: 0031-6903

DT Journal

LA Japanese

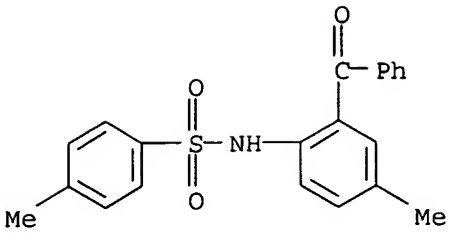
OS CASREACT 107:198158

AB 3-Phenylindazoles I [R = H, Cl, Br, Me; R1 = NH2, NHMe, NMe2, NEt2, NCH2CH:CH2)2, piperidino, morpholino, 4-methylpiperazino; n = 2,3] were prepared by diazotization and cyclization of benzophenones II. I (n = 3, R = Me, R1 = NHMe; n = 3, R = H, Me, Br, R1 = NMe2) were as effective in preventing reserpine-induced hypothermia as imipramine.

IT **111016-39-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

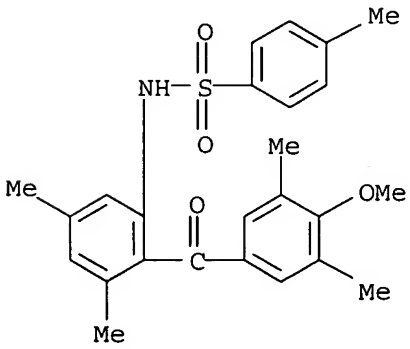
RN 111016-39-8 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-methylphenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)



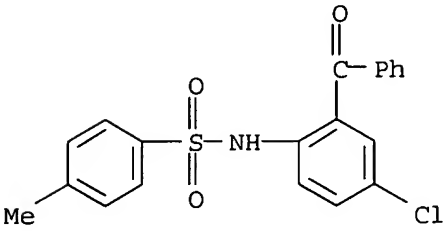
● Na

L4 ANSWER 17 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1987:175880 CAPLUS
DN 106:175880
TI [5,5] Sigmatropic rearrangement of arylhydrazones followed by 1,2-shift of an aryl group. VII
AU Sannicolo, Franco
CS Ist. Chim. Ind., Univ. Milano, Milan, I-20133, Italy
SO Gazzetta Chimica Italiana (1985), 115(2), 91-5
CODEN: GCITA9; ISSN: 0016-5603
DT Journal
LA English
OS CASREACT 106:175880
AB The arylhydrazones I (R = Me, H, R1 = CO2Et; R = R1 = Me) rearranged in hot polyphosphoric acid to give bisphenyl derivs. arising from a [5,5]-sigmatropic rearrangement followed by an aryl group 1,2-shift. Thus, I (R = Me, R1 = CO2Et) was treated with polyphosphoric acid at 100° for 3 min to give the biphenylylglyoxylate II and the fluorenone III.
IT **107642-75-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion to aminomethoxytetramethyldiphenyl ketone)
RN 107642-75-1 CAPLUS
CN Benzenesulfonamide, N-[2-(4-methoxy-3,5-dimethylbenzoyl)-3,5-dimethylphenyl]-4-methyl- (9CI) (CA INDEX NAME)

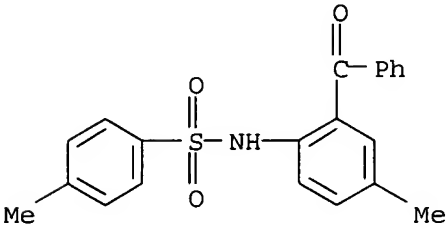


L4 ANSWER 18 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1985:560483 CAPLUS
DN 103:160483
TI Macrocyclic (amidoacyl)hydrazones

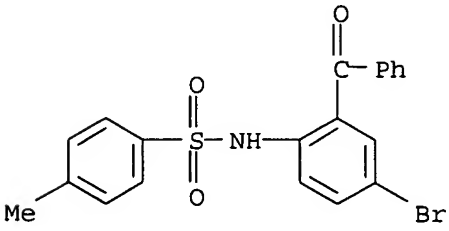
AU Yavorskii, A. S.; Bondarev, M. L.; Andronati, S. A.; Terent'ev, P. B.
CS Fiz.-Khim. Inst., Odessa, 270080, USSR
SO Khimiya Geterotsiklicheskikh Soedinenii (1985), (7), 991-5
CODEN: KGSSAQ; ISSN: 0453-8234
DT Journal
LA Russian
OS CASREACT 103:160483
AB The title compds. I (R1 = Br, Cl, Me, R2 = Ph; R1 = Br, R2 = o-ClC6H4) were prepared in 85-90% yields in 4 steps from benzophenones II by treatment with N2H4.H2O, reaction with (COCl)2, hydrolysis to give dihydrazide III, and ring closure by (COCl)2.
IT **4873-59-0 28561-54-8 94579-32-5**
98608-63-0
RL: PROC (Process)
(hydrazone formation of, with hydrazine hydrate)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



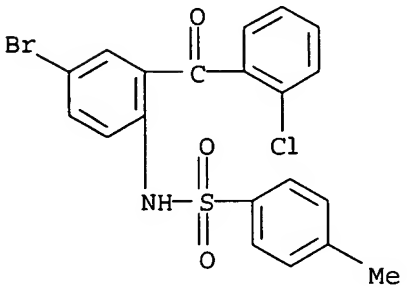
RN 28561-54-8 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-methylphenyl)-4-methyl- (9CI) (CA INDEX NAME)



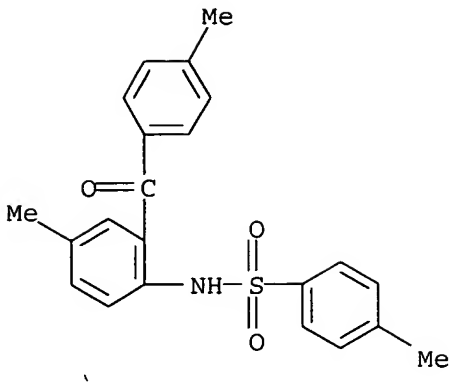
RN 94579-32-5 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-bromophenyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 98608-63-0 CAPLUS
CN Benzenesulfonamide, N-[4-bromo-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



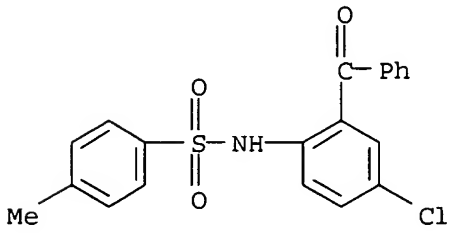
L4 ANSWER 19 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1984:5549 CAPLUS
DN 100:5549
TI Carbanionically induced [1,3]-migrations of π- and coordinatively unsaturated groups
AU Hellwinkel, Dieter; Laemmerzahl, Frank; Hofmann, Gunter
CS Org.-Chem. Inst., Univ. Heidelberg, Heidelberg, D-6900/1, Fed. Rep. Ger.
SO Chemische Berichte (1983), 116(10), 3375-405
CODEN: CHBEAM; ISSN: 0009-2940
DT Journal
LA German
OS CASREACT 100:5549
AB I (R = Ph, CMe3; X = O, NMe) reacted under mild conditions to give intensely colored Li derivs. of o-acylphenols and o-acylanilines, which were then hydrolyzed to II. Analogous reactions occurred with III, IV, and V. In the case of Me3CCON(C6H4Me-p)2, such a [1,3] rearrangement could be induced by direct metalation of the educt, but with Me3CCONMePh exclusive metalation of the N-Me group occurred, followed by [1,2] migration of the pivaloyl group. Similar rearrangement of VI, followed by alkylation of the product, gave VII (R = Me, Bu). Only the Bz group underwent a [1,3] shift in VIII. The migration tendencies of the Me3Si and Bz groups in IX were the same.
IT **87995-70-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 87995-70-8 CAPLUS
CN Benzenesulfonamide, 4-methyl-N-[4-methyl-2-(4-methylbenzoyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 20 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1983:539507 CAPLUS
DN 99:139507
TI N-Methyl-2-(p-toluenesulfonamido)-5-chlorobenzophenone
PA East India Pharmaceutical Works Ltd., India
SO Indian, 6 pp.
CODEN: INXXAP
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 150962	A	19830129	IN 1981-CA504	19810513
				IN 1981-CA504	19810513

AB The conversion of benzophenone derivative I (R = H) to N-Me derivative I (R = Me)
was catalyzed by Me(CH2)15N+Me3 Br- (II). I (R = H) was treated with Me2SO (or MeI), NaOH (or KOH) and II in C6H6 (or PhMe, or CH2Cl2) to give 95-97% I (R = Me).
IT **4873-59-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(N-methylation of, catalysts for)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 21 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1983:406040 CAPLUS
DN 99:6040
TI Substituted 2-benzoyl-4-chloroglycinanilide derivatives and their use as medicaments
IN Mouzin, Gilbert; Cousse, Henri; Stenger, Antoine; Casadio, Sylvano

PA Fabre, Pierre, S. A., Fr.
SO U.S., 12 pp. Cont.-in-part of U.S. Ser. No. 916,651, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 4372975	A	19830208	US 1980-200622		19801027
				FR 1977-18511	A	19770616
				US 1978-916651	A2	19780619
	FR 2403330	A1	19790413	FR 1977-18511		19770616
	FR 2403330	B1	19821105			
					A	

PATENT FAMILY INFORMATION:
FAN 1979:420092

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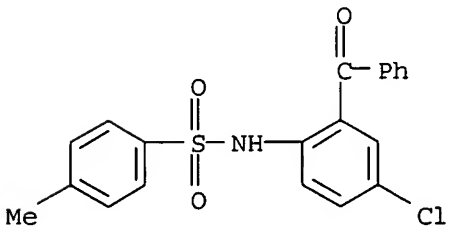
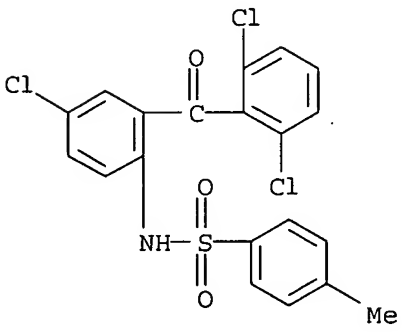
PI	JP 54036238	A2	19790316	JP 1978-73141		19780616
				FR 1977-18511	A	19770616
	FR 2403330	A1	19790413	FR 1977-18511		19770616
	FR 2403330	B1	19821105			
					A	
	EP 299	A1	19790110	EP 1978-400009		19780601
	EP 299	B1	19801112			
	R: BE, CH, DE, FR, GB, NL					
				FR 1977-18511		19770616
	ZA 7803410	A	19790627	ZA 1978-3410		19780614
				FR 1977-18511	A	19770616
	CA 1124256	A1	19820525	CA 1978-305549		19780615
				FR 1977-18511	A	19770616
	ES 470861	A1	19790201	ES 1978-470861		19780616
				FR 1977-18511	A	19770616

AB Title compds. I (R = allyl, methylallyl, diethylpropargyl, ethynylcyclohexyl, cyclopropyl) were prepared as central nervous system agents. Thus, benzophenone II (R1 = R2 = H) was tosylated to give 95% II (R1 = tosyl, R2 = H), which was methylated with Me2SO4 to give 87% II (R1 = tosyl, R2 = Me), which was detosylated by 96% H2SO4 to give 85% II (R1 = H, R2 = Me). The latter was N-acylated with BrCH2COCl to give 82% II (R1 = BrCH2CO, R2 = Me), which was treated with H2NCMe2C.tplbond.CH and then with HCl to give I.HCl (R = CMe2C.tplbond.CH) (III). III exhibited anti-pentamethylene tetrazole activity in mice with an ED50 of 1.5 mg/kg p.o.
IT **4873-59-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and N-methylation of)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 22 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1982:472335 CAPLUS
DN 97:72335
TI Quinazolines and 1,4-benzodiazepines. 91. Structure-activity relationship between substituted 2-amino-N-(2-benzoyl-4-chlorophenyl)acetamides and 1,4-benzodiazepinones
AU Fryer, R. Ian; Leimgruber, Willy; Trybulski, Eugene J.
CS Chem. Res. Dep., Hoffmann-La Roche Inc., Nutley, NJ, 07110, USA
SO Journal of Medicinal Chemistry (1982), 25(9), 1050-5
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
AB 2-Amino-N-(2-benzoyl-4-chlorophenyl)acetamides, e.g. I, were prepared from 3,6-Cl(O2N)C6H3CHO in several steps. The pharmacol. properties of these compds. were compared with data obtained from the corresponding cyclized products [5-(2,6-dichlorophenyl)-1,4-benzodiazepin-2-ones], e.g. II. Evidence is presented which suggests that the central nervous system activity observed for 1,4-benzodiazepines is inherent only in the closed seven-membered ring and is not due to the ring-opened form.
IT **82082-27-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)
RN 82082-27-7 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2,6-dichlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 23 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1982:142456 CAPLUS
DN 96:142456
TI Benzodiazepine intermediates
IN Mayer, Joseph; Peer, Lydia; Babad, Esther
PA Schering Corp., USA
SO U.S., 4 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4312996	A	19820126	US 1980-221136	19801229
				US 1980-221136 A	19801229

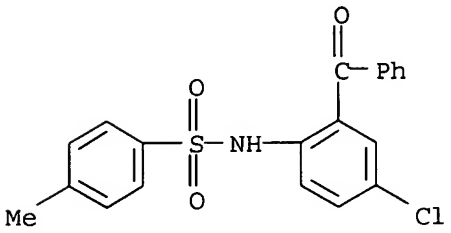
OS CASREACT 96:142456
AB I (R = PhSO2 or C1-C6 alkyl-substituted derivs.; R1 and R2 independently

are H, halo, CF3, NO2, C1-C6 alkyl or alkoxy) were prepared and hydrolyzed to I (R = H), which are intermediates in the preparation of benzodiazepines such as halazepam. Thus, I (R = PhSO2, R1 = 5-Cl, R2 = H) was prepared by alkylation of 5,2-Cl(H2N)C6H3COPh with PhSO2OCH2CF3 by refluxing a C6H4Et2 solution containing Na2CO3 and K2CO3.

IT **4873-59-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and N-trifluoroethylation of)

RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 24 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1982:34558 CAPLUS

DN 96:34558

TI Hyperfluorinated alkanesulfonates and their use as 2,2,2-trifluoroethylating agents

IN Perlotto, Tito

PA Fabbrica Italiana Sintetici S.p.A., Italy

SO Fr. Demande, 13 pp.
CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

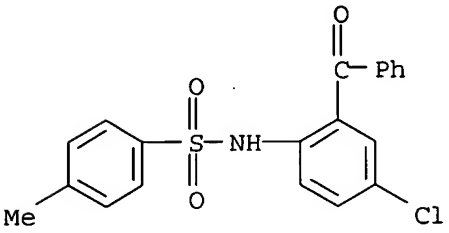
	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	FR 2470119	A1	19810529	FR 1980-24664		19801120
	FR 2470119	B1	19840928			
				GB 1979-40622	A	19791123
				GB 1979-40623	A	19791123
	CH 645617	A	19841015	CH 1980-8507		19801117
				GB 1979-40622	A	19791123
				GB 1979-40623	A	19791123
	GB 2065112	A	19810624	GB 1980-37131		19801119
				GB 1979-40622	A	19791123
				GB 1979-40623	A	19791123
	JP 56087553	A2	19810716	JP 1980-165224		19801121
	JP 02024807	B4	19900530			
				GB 1979-40622	A	19791123
				GB 1979-40623	A	19791123
	DE 3043950	A1	19810903	DE 1980-3043950		19801121
	DE 3043950	C2	19900802			
				GB 1979-40622	A	19791123
				GB 1979-40623	A	19791123
	JP 02152955	A2	19900612	JP 1989-274779		19891018
	JP 02060663	B4	19901217			
				GB 1979-40622	A	19791123

AB F(CF2)nSO3CH2CF3 (n = 3-8) were prepared for use as trifluoroethylating agents. Thus F(CF2)4SO2F was treated with CF3CH2OH to give F(CF2)4SO2CH2CF3 which was used to alkylate demethyldiazepam in the presence of NaOMe to give the 1-(2,2,2-trifluoroethyl) derivative

IT **4873-59-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(trifluoroethylation of, trifluoroethyl perfluorobutane sulfonate as reagent for)

RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 25 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1980:586309 CAPLUS

DN 93:186309

TI Synthesis methods of diazepam

AU Kim, Dong Jun; Kang, Won Mo; Lee, Gyon I.; Kim, Ung Hak

CS N. Korea

SO Choson Minjujuui Inmin Konghwaguk Kwahagwon Tongbo (1980), (1), 42-4
CODEN: CKWTAN; ISSN: 0366-6662

DT Journal

LA Korean

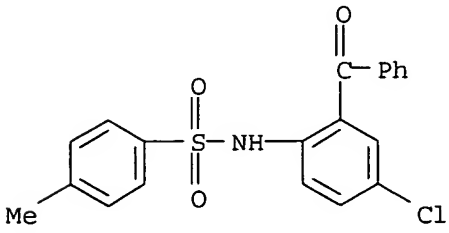
OS CASREACT 93:186309

AB Diazepam (I; R = Me) (II) was prepared via 2 major synthetic routes, i.e., cyclization of III over hexamine gave 85% II, whereas methylation of I (R = H) with PhSO3Me gave 67% II. All intermediates were prepared

IT **4873-59-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)

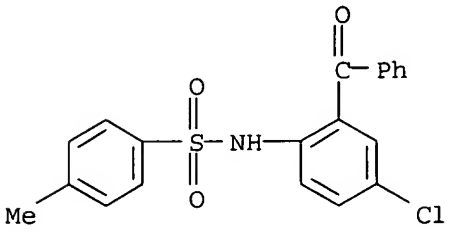
RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 26 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1980:567810 CAPLUS
DN 93:167810
TI Perchloric acid-acetic acid mixture as a reagent for detosylation of 2-N-p-toluenesulfonylaminophenyl(phenyl)methanones
AU Wakankar, D. M.; Hosangadi, B. D.
CS Dep. Chem., Univ. Bombay, Bombay, 400 098, India
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1980), 19B(3), 223-4
CODEN: IJSBDB; ISSN: 0376-4699
DT Journal
LA English
OS CASREACT 93:167810
AB HClO4-HOAc was a good reagent for the detosylation of ketones I (R = p-MeC6H4SO2; R1-5 = H; R1 = Cl, R2 = R3 = R4 = R5 = H; R1 = R3 = R5 = H, R2 = R4 = MeO; R1 = R2 = R3 = R5 = H, R4 = MeO; R1 = R3 = R4 = H, R2 = R5 = MeO; R1 = R2 = R5 = H, R3 = R4 = MeO) to give the corresponding amino ketones I (R = H) in 53-87% yield.
IT **4873-59-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(detosylation of, with perchloric acid-acetic acid mixture)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 27 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1979:420092 CAPLUS
DN 91:20092
TI 2-Benzoyl-4-chloroglycinanilide derivatives
PA Fabre, Pierre, S. A., Fr.
SO Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 54036238	A2	19790316	JP 1978-73141	19780616
				FR 1977-18511 A	19770616
	FR 2403330	A1	19790413	FR 1977-18511	19770616
	FR 2403330	B1	19821105		
				A	
	EP 299	A1	19790110	EP 1978-400009	19780601
	EP 299	B1	19801112		
	R: BE, CH, DE, FR, GB, NL				
				FR 1977-18511	19770616
	ZA 7803410	A	19790627	ZA 1978-3410	19780614
				FR 1977-18511 A	19770616
	CA 1124256	A1	19820525	CA 1978-305549	19780615

				FR 1977-18511	A 19770616
	ES 470861	A1	19790201	ES 1978-470861	19780616
				FR 1977-18511	A 19770616

PATENT FAMILY INFORMATION:

FAN 1983:406040

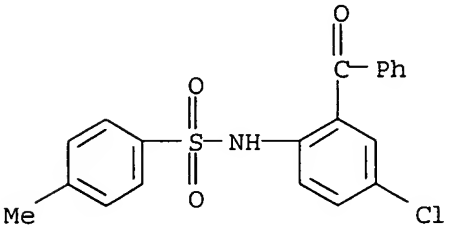
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4372975	A	19830208	US 1980-200622	19801027
				FR 1977-18511 A	19770616
				US 1978-916651 A2	19780619
	FR 2403330	A1	19790413	FR 1977-18511	19770616
	FR 2403330	B1	19821105	A	

AB Glycinanilide derivs. I (R = H, alkyl, alkenyl, cycloalkylmethyl, etc.; R1 are R2 H, alkyl, hydroxyalkyl, aryl, aralkyl, etc.), effective anticonvulsants with ED50 0.8-4.1 mg/kg p.o. and LD50 550-1700 mg/kg in mice, were prepared Thus, 0.9 mol II (R = R3 = H) and 190.6 g p-MeC6H4SO2Cl in pyridine was heated 1 h at 100° to give 95% II (R = H, R3 = p-MeC6H4SO2), which (0.8 mol) was treated with Me2SO4 in NaOMe at 25°-70° to give 87% II (R = Me, R3 = p-MeC6H4SO2) (III). Hydrolysis of III in aqueous H2SO4 at 110° gave 85% II (R = Me, R3 = H), and the latter was treated with BrCH2COCl in C6H6 to give 82% II (R = Me, R3 = BrCH2CO) (IV). Addition of 16.48 g IV to excess Me2CHNH2 in Me2CO and heating of the mixture 6 h at 45° followed by treatment with saturated HCl-MeOH gave 13.18 g I (R = Me, R1 = H, R2 = Me2CH).HCl; similarly prepared were 63 addnl. I and their salts.

IT **4873-59-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and N-alkylation of)

RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 28 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1977:55401 CAPLUS

DN 86:55401

TI 1,4-Benzodiazepines. XI. Synthetic studies on 1,4-benzodiazepines. Preparation of various N(1)-substituted-7-chloro-1,3-H-5-phenyl-1,4-benzodiazepines and their 2-deoxo derivatives

AU Kajfez, Franjo; Oklobdzija, Milan; Mihalic, Mladen; Sunjic, Vitomir; Blazevic, Nikola

CS Fac. Pharm. Biochem., Univ. Zagreb, Zagreb, Yugoslavia

SO Acta Pharmaceutica Jugoslavica (1976), 26(3), 199-207
CODEN: APJUA8; ISSN: 0001-6667

DT Journal

LA English

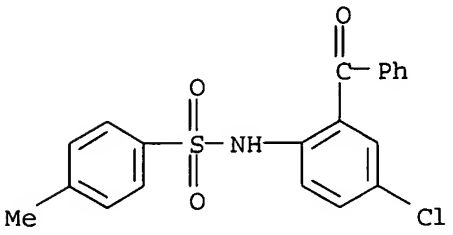
OS CASREACT 86:55401

AB Benzodiazepinones I (R = H, Me, R1 = H, CH2OC6H4Cl-2, CH2OPh; R = H, R1 = CH2OC6H4Cl-4, CH2OC6H4Me-3; R = Me, R1 = CH2OC6H4OMe-2, CH2OMe) were prepared by treating 2,4-BzClC6H3NHCH2CHR1OR with BrCH2COBr, and cyclizing 2,4-BzClC6H3N(COCH2Br)CH2CHR1OR with hexamine. II [R2 = CH2CH(OH)CH2OH, R3 = H, R4 = Cl, NO2, R3 = Me, R4 = Cl; R2 = 2,3-epoxypropyl, R3 = H, R4 = Cl] were prepared by N-alkylating II (R2 = H) with epibromohydrin. III (R5 = 2-Me, 3-Me, 3-Ph, H, 3-CH2OPh) were prepared by brominating 2,4-BzClC6H3NMeCH2CHR5OH and cyclizing the bromo derivs. with hexamine.

IT **4142-76-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation of)

RN 4142-76-1 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)



● Na

L4 ANSWER 29 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1977:55093 CAPLUS

DN 86:55093

TI 1,4-Benzodiazepines. X. Synthetic studies on 1,4-benzodiazepines. Preparation of 2-N-β-hydroxy- and 2-N-β-methoxy-ethylamino-5-chlorobenzophenones

AU Kajfez, Franjo; Lisini, Adriana; Oklobdzija, Milan; Mihalic, Mladen; Sunjic, Vitomir; Blazevic, Nikola

CS Fac. Pharm. Biochem., Univ. Zagreb, Zagreb, Yugoslavia

SO Acta Pharmaceutica Jugoslavica (1976), 26(3), 187-98
CODEN: APJUA8; ISSN: 0001-6667

DT Journal

LA English

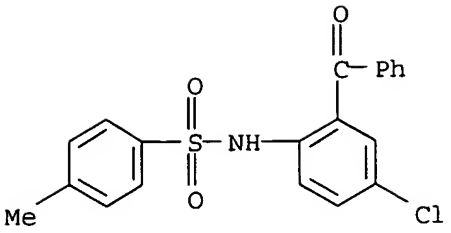
OS CASREACT 86:55093

AB 2,4-BzClC6H3NRCH2CHR1OH (I, R = H, R1 = H, CH2Br, CH2OC6H4Me-3, CH2OC6H4Cl-4, Ch2OC6H4Cl-2, CH2OC6H4OMe-2, CH2OPh, Me, CH2OH, Ph; R = CH2CH2OH, R1 = H; R = Me, R1 = CH2Br, H, Ph) were prepared by treating 2,4-BzClC6H3NHR with the epoxides II. Methylation of I with MeI in BaO-DMF gave 2,4-BzClC6H3NHCH2CHR1OMe (R1 = H, Ph, CH2Ph, CH2OC6H4Cl-2, CH2OC6H4OMe-2, CH2OC6H4Cl-4, CH2OC6H4Cl-3, CH2OMe). II (R1 = 2,4-BzClC6H3NHCH2), 3,4-diphenyl-6-chlorquinoline, and the benzodiazepine III were obtained as bypyroducts.

IT **4142-76-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dibromopropanol)

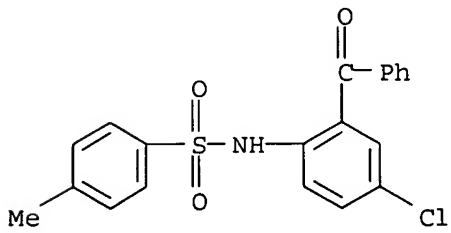
RN 4142-76-1 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)



● Na

L4 ANSWER 30 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1976:31018 CAPLUS
DN 84:31018
TI Synthesis of 1,4-benzodiazepine-2-one derivatives
AU Inukai, Noriyoshi; Nakano, Kohzi; Murakami, Masuo
CS Yamanouchi Cent. Res. Lab., Tokyo, Japan
SO Yamanouchi Seiyaku Kenkyu Hokoku (1974), 2, 196-205
CODEN: YSKHDO; ISSN: 0287-2935
DT Journal
LA Japanese
OS CASREACT 84:31018
AB Chlorodihydrophenylbenzodiazepinone (I) was prepared from 2-amino-5-chlorobenzophenone and 3 equivalent of glycine in pyridine in the presence of 6 equivalent of p-MeC6H4SO3H or PhSO3H by azeotropic dehydration. Methylation of I gave diazepam (II). The method was also applied to the preparation of 15 3-substituted-7-chloro-1,3-dihydro-5-phenyl-2H-1,4-benzodiazepin-2-ones, 5,6-dihydro-6-oxodibenzo[b,f][1,5]diazocines III (R = H, Cl) and related compds. 4-Phenylquinazolines and 4-alkyl-1-phenylisoquinolines were prepared
IT **4873-59-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, with serine)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)

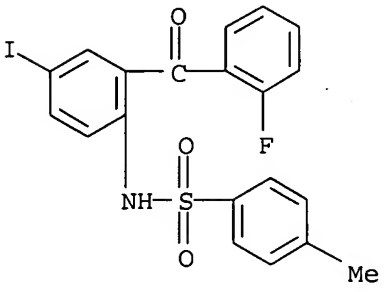


L4 ANSWER 31 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1975:497409 CAPLUS
DN 83:97409
TI Benzodiazepine derivatives
IN Field, George F.; Sternbach, Leo H.
PA Hoffmann-La Roche, F., und Co., A.-G., Switz.

SO Patentschrift (Switz.), 5 pp. Division of Swiss 549,586 (See Ger. 2,062,927, CA 76;59670r).
CODEN: SWXXAS
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CH 561703	A	19750515	CH 1973-17455	19701211
			CH 1973-17455 A	19701211

AB The cyclization of 2'-fluoro-5-iodo-2-methylaminobenzophenone with H2NCH2CO2Et gave I (R = Me). I (R = H) was similarly prepared The ED50 for I as sedatives, muscle relaxants, and anticonvulsants were given.
IT **34932-79-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)
RN 34932-79-1 CAPLUS
CN Benzenesulfonamide, N-[2-(2-fluorobenzoyl)-4-iodophenyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 32 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1975:171112 CAPLUS
DN 82:171112
TI Benzodiazepinones
IN Jaunin, Roland; Hellerbach, Joseph
PA Hoffmann-La Roche, F., und Co., A.-G., Switz.
SO Patentschrift (Switz.), 4 pp. Division of Swiss 538,492 (See Ger. 2,150,075, CA 77;48523q).
CODEN: SWXXAS
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CH 559191	A	19750228	CH 1973-5744	19701007
			CH 1973-5744 A	19701007

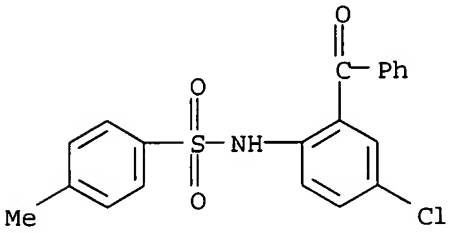
AB Approx. 25 sedatives and muscle relaxants (I, R1 = Ph, o-FC6H4, o-ClC6H4, 2-pyridyl; R2 = Br, Cl, NO2; R3 = e.g. NCCH2O, H2NCOCH2SCH2, Me2NCOCH2O, H2NCOCH2NEt) were prepared by treatment of R3CH2CH2Cl with the corresponding 2-(tosylamino)benzophenone followed by detosylation and cycloaddn. with N3CH2COCl. Thus, refluxing 2,5-(p-MeC6H4SO2NH)ClC6H3COPh in NaOMe and MeOH and then heated 48 hr at 120° with Me2NCOCH2OCH2CH2Cl, followed by detosylation with 33% HBr in PhOH and cycloaddn. of N3CH2COCl gave I (R1 = Cl, R2 = Ph, R3 = Me2NCOCH2O). I (R1 = Cl, R2 = o-FC6H4, R3 = H2NCOCH2O), useful as an anticonvulsant at 0.176 mg/kg orally, had LD50

= >1250 mg/kg in mice.

IT **4873-59-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloroethoxyacetamide derivs.)

RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 33 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1975:125095 CAPLUS

DN 82:125095

TI 2-Alkylaminobenzophenones

IN Welstead, William J., Jr.; Stauffer, Harold F., Jr.

PA A. H. Robins Co., Inc.

SO U.S., 6 pp.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

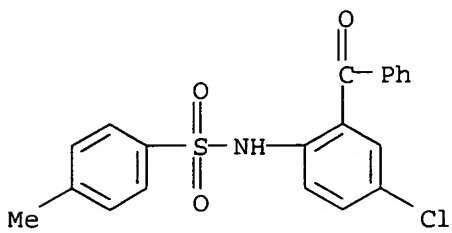
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3846477	A	19741105	US 1972-290568	19720920
			US 1972-290568 A	19720920

AB 5-Chloro-2-(tosylamido)benzophenone was treated with substituted alkyl halides and NaH to give the aminobenzophenones (I, R = H, CH2OH). Similarly prepared were the following II (n and R given): 1, H; 2, Me. N-methylation and N-acylation of the I gave 5,2-Cl[HOCH2CH(OH)CH2NMe]C6H3COPh and 5,2-Cl[HO(CH2)2N(CO2Et)]C6H3COPh which demonstrated tranquilizer activity.

IT **4873-59-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with alkyl halides)

RN 4873-59-0 CAPLUS

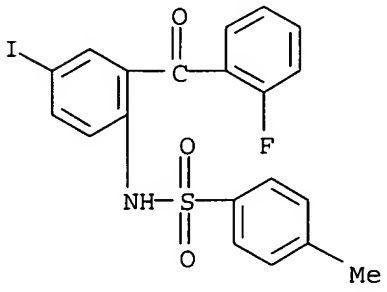
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1974:37186 CAPLUS
DN 80:37186
TI Benzodiazepine derivatives
IN Field, Georrge F.; Sternbach, Leo H.
PA Hoffmann-La Roche, F., und Co., A.-G.
SO Brit., 19 pp.
CODEN: BRXXAA
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 1332697	A	19731003	GB 1970-60449	19701221
			GB 1970-60449 A	19701221

AB The title compds. (I, R = H, Me), useful as sedatives, muscle relaxants, and anticonvulsants, were prepared E.g., refluxing 2-bromo-2'-(2-fluorobenzoyl)-4'-iodo-N-methylacetanilide in DMF containing concentrated aqueous NH3
for 3 min gave I (R = Me). I-containing compns. for tablets, capsules, and injection solns. were reported.
IT **34932-79-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 34932-79-1 CAPLUS
CN Benzenesulfonamide, N-[2-(2-fluorobenzoyl)-4-iodophenyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 35 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1974:36879 CAPLUS
DN 80:36879
TI 2-Amino-2'-fluoro-5-iodobenzophenone derivatives
IN Field, George F.; Sternbach, Leo H.
PA Hoffmann-La Roche, F., und Co., A.-G.
SO Brit., 4 pp. Division of Brit. 1,332,697.
CODEN: BRXXAA
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 1332698	A	19731003	GB 1972-12290	19701221
			GB 1972-12290 A	19701221

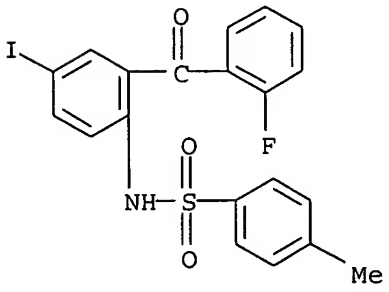
AB 2-Amino-2'-fluorobenzophenone with 2 moles ICl3 in CHCl3 1 hr at room temperature gave the benzophenone (I, R = R1 = H) which on tosylation, methylation, and acid hydrolysis gave I (R = Me, R1 = H). Acylation of

the appropriate benzophenones with BrCH2COBr gave I (R = H, Me, R1 = BrCH2CO).

IT **34932-79-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 34932-79-1 CAPLUS

CN Benzenesulfonamide, N-[2-(2-fluorobenzoyl)-4-iodophenyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 36 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1973:542798 CAPLUS

DN 79:142798

TI Synthesis and antiinflammatory activity of 1-alkyl-4-aryl-2(1H)-quinazolines and quinazolinethiones

AU Coombs, R. V.; Danna, R. P.; Denzer, M.; Hardtmann, G. E.; Huegi, B.; Koletar, G.; Koletar, J.; Ott, H.; Jukniewicz, E.; et al.

CS Med. Chem. Dep., Sandoz-Wander, Inc., East Hanover, NJ, USA

SO Journal of Medicinal Chemistry (1973), 16(11), 1237-45
CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

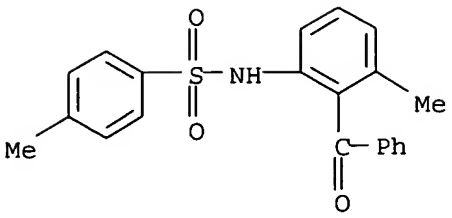
LA English

AB Addnl. data considered in abstracting and indexing are available from a source cited in the original document. A number of quinazolinones and quinazolinethiones compared favorably in antiinflammatory activity with indomethacin and phenylbutazone. The most potent compound in the series, 1-isopropyl-7-methyl-4-phenyl-2(1H)-quinazolinone (I) [22760-18-5], showed the following ED50 values: carrageenan-induced paw edema inhibition in normal and adrenalectomized rats, 5 and 6 mg/kg orally, resp.; bradykinin-induced bronchoconstriction reversal in guinea pigs, 0.008 mg/kg, i.v.; adjuvant arthritis inhibition in rats, 1 mg/kg orally. The quinazolinones were prepared from the appropriately substituted anthranilic acids or anilines via the corresponding o-aminobenzophenones.

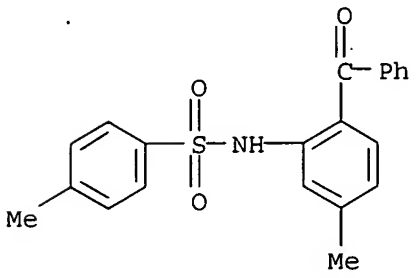
IT **50817-59-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(detosylation of)

RN 50817-59-9 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-3-methylphenyl)-4-methyl- (9CI) (CA INDEX NAME)



IT **50817-55-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 50817-55-5 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-5-methylphenyl)-4-methyl- (9CI) (CA INDEX NAME)

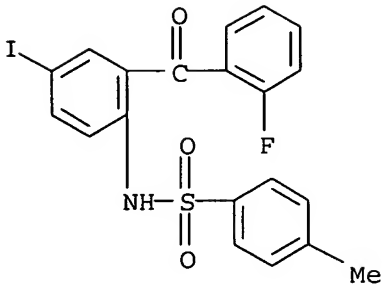


L4 ANSWER 37 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1973:72231 CAPLUS
DN 78:72231
TI 1,4-Benzodiazepin-2-one derivatives
IN Field, George Francis; Sternbach, Leo Henryk
PA Hoffmann-La Roche, F., und Co., A.-G.
SO S. African, 75 pp.
CODEN: SFXXAB
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 7008348		19720612	ZA 1970-8348	19701210

AB 5-(o-Fluorophenyl)-1,3-dihydro-7-iodo-2H-1,4-benzodiazepin-2-one (I; R = H) and its Me derivative I (R = Me) were prepared by 12 different methods, utilizing ring closure, ring expansion, dehydration, dehydrohalogenation, decarboxylation, deoxidization, Sandmeyer, and methylation reactions. Compds. I (R = H, Me) were useful as sedatives, muscle relaxants, and anticonvulsants.

IT **34932-79-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 34932-79-1 CAPLUS
CN Benzenesulfonamide, N-[2-(2-fluorobenzoyl)-4-iodophenyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 38 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1972:99721 CAPLUS
DN 76:99721
TI 5-Phenyl-2,3-dihydro-1H-1,4-benzodiazepines
IN Kajfez, Franjo; Blazevic, Nikola
PA CRC Compagnia di Ricerca Chimica S.A.
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

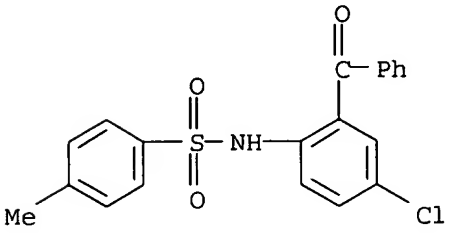
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2129683	A	19720113	DE 1971-2129683	19710615
				CH 1970-9124 A	19700616
	CH 549030	A	19740515	CH 1970-9124 A	19700616
	ES 392229	A1	19731116	ES 1971-392229	19710614
				CH 1970-9124 A	19700616
	NO 131597	B	19750317	NO 1971-2220	19710614
				CH 1970-9124 A	19700616
	AT 310759	B	19731010	AT 1971-5153	19710615
				CH 1970-9124 A	19700616
	CA 946386	A1	19740430	CA 1971-115626	19710615
				CH 1970-9124 A	19700616
	SE 414306	B	19800721	SE 1971-7734	19710615
	SE 414306	C	19801106		
				CH 1970-9124 A	19700616
	NL 7108245	A	19711220	NL 1971-8245	19710616
	NL 155544	B	19780116		
				CH 1970-9124 A	19700616
	ZA 7103923	A	19720126	ZA 1971-3923	19710616
				CH 1970-9124 A	19700616
	FR 2099752	A5	19720317	FR 1971-21851	19710616
				CH 1970-9124 A	19700616
	GB 1317339	A	19730516	GB 1971-28229	19710616
				CH 1970-9124 A	19700616
	JP 52018198	B4	19770520	JP 1971-43220	19710616
				CH 1970-9124 A	19700616

AB Title compds. (I, R = H, Me, Et, or cyclopropyl; R1 = Cl, NO2, or CF3) were prepared by cyclization of o-[(β-bromoethyl)amino]benzophenones (II) with NH3 or hexamethylenetetramine (III) or of the II-III complex. Thus, 5,2-Cl(H2N)C6H3Bz reacted with p-MeC6H4-SO2Cl to give 2-(p-tosylamino)-5-chlorobenzophenone, which reacted with MeONa to give the Na salt. This reacted with BrCH2CH2Br to give 2-[N-p-tosyl(2-bromoethyl)amino]-5-chlorobenzophenone, which was treated with 75% H2SO4 to give 5,2-Cl(BrCH2CH2NH)C6H3Bz. This reacted

with MeI to give 5,2-Cl(BrCH2CH2NMe)C6H3Bz, which was refluxed 10 hr with III in EtOH to give I (R = Me, R1 = Cl) (IV, medazepam). Similarly prepared were I (R and R1 given): Et, Cl; cyclopropyl, Cl; Me, NO2; H, CF3; H, Cl. IV.HCl and IV.HBr were also prepared

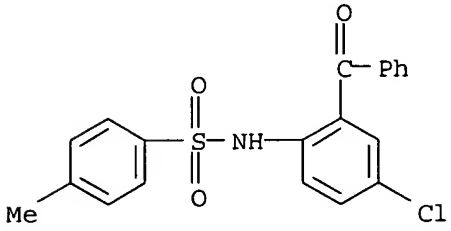
IT **4142-76-1P 4873-59-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 4142-76-1 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 39 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1972:59670 CAPLUS
DN 76:59670
TI Sedative and muscle-relaxing 2H-1,4-benzodiazepin-2-one derivatives
IN Field, George F.; Sternbach, Leo H.
PA Hoffmann-La Roche, F., und Co., A.-G.
SO Ger. Offen., 63 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	DE 2062927	A	19711216	DE 1970-2062927		19701221
				US 1970-42533	A	19700601
	CH 549586	A	19740531	CH 1970-18381		19701211
				US 1970-42533	A	19700601
	CH 561684	A	19750515	CH 1973-17454		19701211

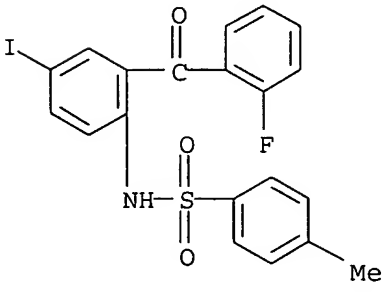
			US 1970-42533	A	19700601
NL 7018577	A	19711203	NL 1970-18577		19701221
			US 1970-42533	A	19700601
FR 2093923	A5	19720204	FR 1970-46020		19701221
FR 2093923	B1	19740524			
			US 1970-42533	A	19700601
ES 386685	A1	19730316	ES 1970-386685		19701221
			US 1970-42533	A	19700601
GB 1332699	A	19731003	GB 1972-12291		19701221
			US 1970-42533	A	19700601
IL 35885	A1	19740516	IL 1970-35885		19701221
			US 1970-42533	A	19700601
CA 954513	A1	19740910	CA 1970-101133		19701221
				A	
NO 130681	B	19741014	NO 1970-4888		19701221
			US 1970-42533	A	19700601
SE 385298	B	19760621	SE 1970-17330		19701221
			US 1970-42533	A	19700601
DK 136647	B	19771107	DK 1970-6493		19701221
			US 1970-42533	A	19700601
CA 979012	A2	19751202	CA 1972-152990		19721002
			US 1970-42533	A	19700601
			CA 1970-101133	A3	19701221
SE 7513327	A	19751126	SE 1975-13327		19751126
			US 1970-42533	A	19700601
DK 7600866	A	19760301	DK 1976-866		19760301
			US 1970-42533	A	19700601
			DK 1970-6493	A	19701221

AB 5-(2-Fluorophenyl)-1,3-dihydro-7-iodo-2H-1,4-benzodiazepin-2-one (I) and its 1-methyl derivative were prepared by various methods. The sedative and muscle relaxing paralyzing doses in mice were 1 and 3.5 mg/kg, resp., in the sloping plane test. In cats the min. effective dose was 0.05 and 0.1 mg/kg resp. In mice in the aggression test the 100% inhibiting dose was 1 and 2 mg/kg, resp. As an anticonvulsant in the elec. shock test in mice the ED50 was 1.6 and 1.3 mg/kg, resp. I was prepared by treating 4,2-I(o-FC6H4CO)C6H3NHCOCH2Br (II) 5 hr with NH3 (1), and then boiling 2 hr in pyridine. II was obtained by iodinating o-FC6H4COC6H4NH2-o and then treating it with BrCH2COBr.

IT **34932-79-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

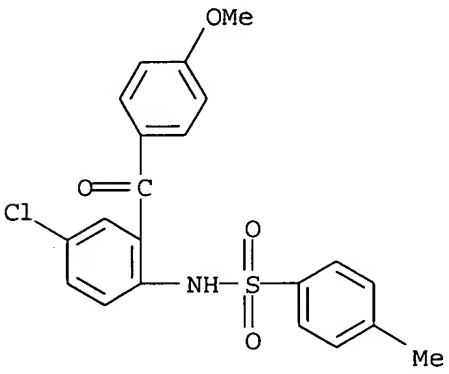
RN 34932-79-1 CAPLUS

CN Benzenesulfonamide, N-[2-(2-fluorobenzoyl)-4-iodophenyl]-4-methyl- (9CI) (CA INDEX NAME)

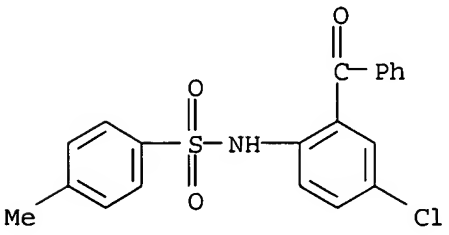


L4 ANSWER 40 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

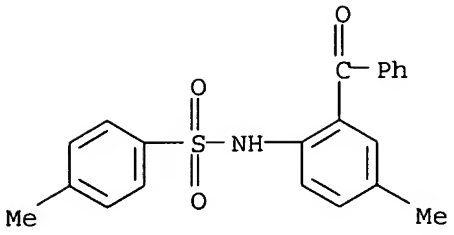
AN 1970:477127 CAPLUS
DN 73:77127
TI Synthesis of heterocyclic compounds. CCCLXVI. Syntheses of azole derivatives. II. Syntheses of N-(1-or 2-substituted)indazolones via diazotization
AU Kametani, Tetsuji; Sota, Kaoru; Shio, Masahisa
CS Pharm. Inst., Tohoku Univ., Sendai, Japan
SO Journal of Heterocyclic Chemistry (1970), 7(4), 815-20
CODEN: JHTCAD; ISSN: 0022-152X
DT Journal
LA English
AB Syntheses of 2,5-disubstituted-indazolones and 3-hydroxy-1-substituted-1H-indazoles were achieved by diazotization of 2-benzoylanilines and N-benzoylhydrazines resp.
IT **2237-07-2P 4873-59-0P 28561-54-8P**
28561-55-9P 28561-57-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 2237-07-2 CAPLUS
CN p-Toluenesulfonanilide, 2'-p-anisoyl-4'-chloro- (7CI, 8CI) (CA INDEX NAME)



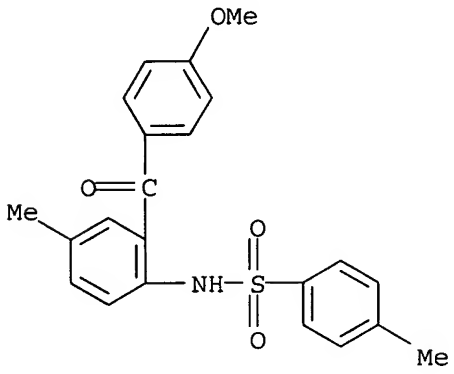
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



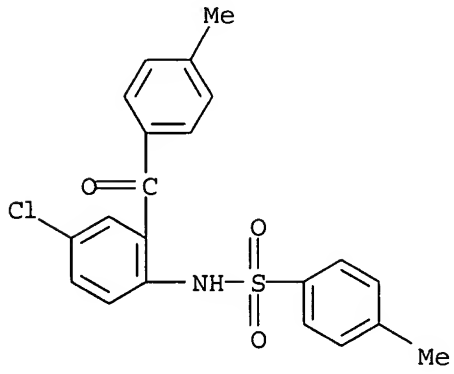
RN 28561-54-8 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-methylphenyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 28561-55-9 CAPLUS
CN p-Toluenesulfono-p-toluidide, 2'-p-anisoyl- (8CI) (CA INDEX NAME)



RN 28561-57-1 CAPLUS
CN p-Toluenesulfonanilide, 4'-chloro-2'-p-toluoyl- (8CI) (CA INDEX NAME)



L4 ANSWER 41 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1970:456144 CAPLUS
DN 73:56144
TI Antidiabetic dibenzo[c,g][1,2,6]thiadiazocines
PA Upjohn Co.
SO Brit., 10 pp.
CODEN: BRXXAA
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

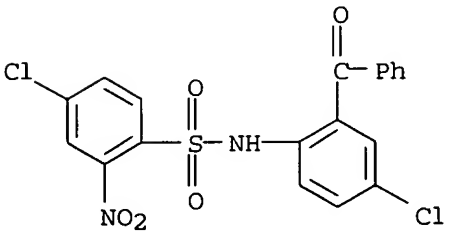
PI	GB 1193917		19700603		
				US	19670516
	DE 1770289			DE	
	FR 1584277			FR	
	US 3534062		19700000	US	

AB Title compds. (I), useful against anaphylaxis and as antidiabetic agents, as well as starting materials in the manufacture of bleaching agents, herbicides and disinfectants, were prepared Thus, 25 g 5,2-Cl(H2N)C6H3Bz and 23.9 o-O2NC6H4SO2Cl in 50 ml pyridine was refluxed .apprx.1 hr to give 35.2 g 2'-benzoyl-4-chloro-2-nitrobenzenesulfonanilide, which was reduced (Fe powder) then treated with p-MeC6H4SO3H to give I (R = R1 = R2 = H, R3 = 2-Cl). Other I (.apprx.3) were prepared, and many other I were cited.

IT **20434-83-7P 20434-84-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

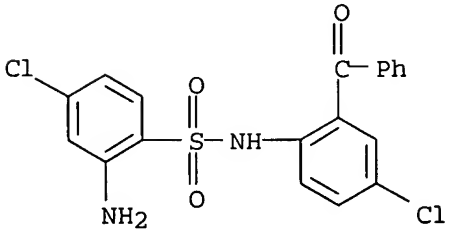
RN 20434-83-7 CAPLUS

CN Benzenesulfonanilide, 2'-benzoyl-4,4'-dichloro-2-nitro- (8CI) (CA INDEX NAME)



RN 20434-84-8 CAPLUS

CN Benzenesulfonanilide, 2-amino-2'-benzoyl-4,4'-dichloro- (8CI) (CA INDEX NAME)



L4 ANSWER 42 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1969:461183 CAPLUS

DN 71:61183

TI Azabenzocycloheptenones. IX. New synthesis and some reactions of the 5,6-dihydrodibenz[b,e]azepin-11-one system

AU MacDonald, Ian; Proctor, George R.

CS Univ. Strathclyde, Glasgow, UK

SO Journal of the Chemical Society [Section] C: Organic (1969), (10), 1321-5
CODEN: JSOOAX; ISSN: 0022-4952

DT Journal

LA English

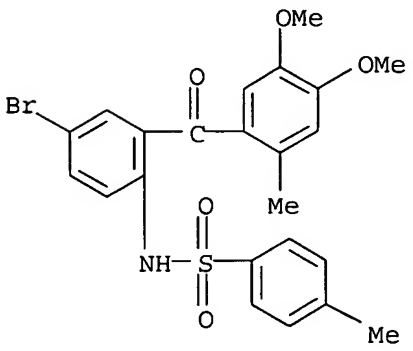
AB Cyclization of N-(m-methoxybenzyl)-N-tolylsulfonyl-anthraniloyl chloride with AlCl3 at -20° yielded 70% 5,6-dihydro-8-methoxy-5-

tosyldibenz[b,e]azepin-11-one (I) (R = p-Me-C6H4SO2), which could be detosylated with polyphosphoric acid. Some reactions of the dihydrodibenzazepinone system are described.

IT **23258-15-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23258-15-3 CAPLUS

CN p-Toluenesulfonanilide, 4'-bromo-2'-(6-methylveratroyl)- (8CI) (CA INDEX NAME)



L4 ANSWER 43 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1969:37850 CAPLUS

DN 70:37850

TI 5-Aryl-3H-1,4-benzodiazepin-2(1H)-ones

IN Reeder, Earl; Sternbach, Leo H.

PA Hoffmann-La Roche Inc.

SO U.S., 18 pp. Continuation-in-part of U.S. 3051701 and Division of U.S. 3136815
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 3402171	A	19680917	US 1963-326337		19631127
				CH 1960-13489	A	19601202
				CH 1960-13492	A	19601202
				CH 1960-13494	A	19601202
	US 3371085	A	19680227	US 1961-154921		19611120
				CH 1960-13489	A	19601202
				CH 1960-13490	A	19601202
				CH 1960-13491	A	19601202
				CH 1960-13492	A	19601202
				CH 1960-13493	A	19601202
				CH 1960-13494	A	19601202
				CH 1960-13495	A	19601202
				CS 1960-7357	A	19611020

PATENT FAMILY INFORMATION:

FAN 1969:450004

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 3442946	A	19690506	US 1963-331904		19631219
				CS 1960-7357	A	19611029
	US 3371085	A	19680227	US 1961-154921		19611120

				CH 1960-13489	A 19601202
				CH 1960-13490	A 19601202
				CH 1960-13491	A 19601202
				CH 1960-13492	A 19601202
				CH 1960-13493	A 19601202
				CH 1960-13494	A 19601202
				CH 1960-13495	A 19601202
				CS 1960-7357	A 19611020

FAN 1970:445551

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3515755	A	19700602	US 1968-737861	19680618
				CH 1960-13489	A 19601202
				CH 1960-13490	A 19601202
				CH 1960-13491	A 19601202
				CH 1960-13492	A 19601202
				CH 1960-13493	A 19601202
				CH 1960-13494	A 19601202
				CH 1960-13495	A 19601202
	US 3371085	A	19680227	US 1961-154921	19611120
				CH 1960-13489	A 19601202
				CH 1960-13490	A 19601202
				CH 1960-13491	A 19601202
				CH 1960-13492	A 19601202
				CH 1960-13493	A 19601202
				CH 1960-13494	A 19601202
				CH 1960-13495	A 19601202
				CS 1960-7357	A 19611020
	US 3412086	A	19681119	US 1964-406906	19641027
				CH 1960-13490	A 19601202
				CH 1960-13492	A 19601202
				CH 1960-13493	A 19601202
				CH 1960-13494	A 19601202
				CH 1960-13495	A 19601202
	US 3427304	A	19690211	US 1967-625638	19670324
				CH 1960-13489	A 19601202
				CH 1960-13490	A 19601202
				CH 1960-13491	A 19601202
				CH 1960-13492	A 19601202
				CH 1960-13493	A 19601202
				CH 1960-13494	A 19601202
				CH 1960-13495	A 19601202

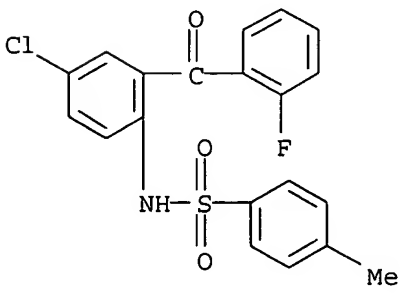
AB Continuation-in-part of U.S. 3,051,701 and division of U.S. 3,136,815 (C A 57: 16641c and C A 61: 9515f). I (X = amino) are treated with amino acids to give benzodiazepinones (II), which are also prepared by cyclization of I (X = NHCOCH2Y) (Y = amino group). Thus, 6.5 g. 2-methylamino-5-chlorobenzophenone is heated with 10 g. Et glycinate-HCl in pyridine to give 7-chloro-1-methyl-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one, m. 125-6°. Similarly prepared are the following II (R, R1, Ar, R2, R3, R4, and m.p. given): H, H, Ph, H, Me, H, 255-6°; H, H, o-ClC6H4, Me, H, H, 223-4°; H, iso-Pr, Ph, Cl, H, H, 226-7°; H, iso-Bu, Ph, Cl, H, H, 213-14°; H, H, Ph, F, H, H, 197-8°; H, MeOCH2, Ph, Cl, H, H, 166-7°; and H, H, m-tolyl, Cl, H, H, 198-9°. 2-Bromoacetamido-3-methylbenzophenone (18.2 g.) is treated with liquid NH3 and the product heated in pyridine to give 9-methyl-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one, m. 184-5°. Similarly prepared are the following II (R, R1, Ar, R2, R3, R4, and m.p. given): H, H, o-FC6H4, H, H, H, 180-1°; H, H, p-FC6H4, Cl, H, H, 223-4°; H, H, o-ClC6H4, H, H, H, 212-13°; H, H, o-ClC6H4 Cl, H, H, 199-201°; H, H, Ph, Br, H, H, 219-20.5°; H, H, Ph, Me,

H, H, 209-10°; H, H, Ph, F, H, H, 197-8°; H, H, p-ClC6H4, Cl, H, H, 247-8°; Me, H, Ph, Cl, H, H, 125-6°; and H, H, o-FC6H4, Br, H, H, 186-7°. Also prepared, according to known methods are the following I (Ar, X, R, R1, R2, and m.p. given): Ph, NH2, Cl, H, H, 56.5-58°; o-ClC6H4, BrCH2CONH, H, H, Cl, 136°; Ph, EtNH, H, H, Cl, 56-7°; o-tolyl, BrCH2CONH, H, H, Cl, 137-8°; o-ClC6H4, p-MeC6· H4SO2NH, H, H, Cl, 136-8°; o-ClC6H4, p-MeC6H4SO2NMe, H, H, Cl, 153-5°; o-ClC6H4, p-MeC6H4SO2NMe, H, H, Cl, 153-5°; o-ClC6H4, MeNH, H, H, Cl, 88-90°; o-FC6H4, p-MeC6H4SO2NH, H, H, Cl, 119-20°; o-FC6H4, p-MeC6H4SO2. NMe, H, H, Cl, 151-2°; o-FC6H4, MeNH, H, H, Cl, 119-20°; Ph, NH2, Cl, H, Cl, 93-4°; Ph, NH2, Me, H, Cl, -; Ph, NH2, Me, H, H, 51-2°; Ph, BrCH2CONH, Me, H, H, 117-18°; OH, N:CHNMe2, H, Me, H, 196-8°; Ph, NH2, H, Me, H, 68-70°; o-FC6H4, NH2, H, H, Me, 68.5-5°; o-ClC6H4, NH2, H, H, Me, 106-7°; o-FC6H4, p-MeC6H4SO2NH, H, H, H, 129.5-30°; o-FC6H4, BrCH2CONH, H, H, H, 117-18.5°; p-FC6H4, NH2, H, H, Cl, 108-9°; p-FC6H4, p-MeC6H4SO2NH, H, H, Br, 114-15°, o-FC6H4, p-MeC6H4SO2NMe, H, H, Br, 154-5°; o-FC6H4, MeNH, H, H, Br, 112-13°; o-O2NC6H4, Cl, H, H, H, 76-9°; o-ClC6H4, NH2, H, H, H, 58-60°; o-ClC6H4, BrCH2CONH, H, H, H, 119-21°; o-ClC6H4, H2NCH2CONH, H, H, H, 162-4°; o-FC6H4, p-MeC6H4SO2NH, H, H, Cl, 132-3°; o-ClC6H4, ClCH2CONH, H, H, Cl, 157-9°; Ph, BrCH2CONH, H, H, Br, 117.5-18.5°; Ph, BrCH2CONH, H, H, Me, 116-17°; m-tolyl, NH2, H, H, Cl, 90-1°; Ph, BrCH2CONH, H, H, F, 103-5°; p-ClC6H4, BrCH2CONH, H, H, Cl, 127-8°; p-ClC6H4, H2· NCH2CONH, H, H, Cl, 139-40°; Ph, ClCH2CONMe, H, H, Cl, 123-4°; Ph, ICH2CONMe, H, H, Cl, 95°; o-FC6H4, BrCH2· CONH, H, H, Br, 139-40°; o-FC6H4, H2NCH2CONH, H, H, Br, 110-11°; o-FC6H4, ClCH2CONH, H, H, Cl, 141-2°; Ph, BrCH2CONH, H, H, H, 94-5°; and Ph, BrCH2CONH, Cl, H, Cl, 162-3°. Also prepared were the following II (R, R1, Ar, R2, R3, R4, and m.p. given): H, H, Ph, Cl, H, H, 216-17°; Me, H, Ph, Cl, H, H, 125-6°; Me, H, o-FC6H4, H, H, H, 113-14°; iso-Pr, H, o-ClC6H4, Cl, H, H, 148-50°; allyl, H, o-ClC6H4, Cl, H, H, 128-30°; Me, H, Ph, F, H, H, 109-10°; Me, H, p-ClC6H4, Cl, H, H, 154-6°; and NCCH2CH2, H, Ph, Cl, H, H, 117-18°. Also prepared were the following compds. (m.p. given): 7-chloro-2-(N-methylacetamido)-5-phenyl-3H-1,4-benzodiazepin 4-oxide, 186-7°; 7-chloro-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one 4-oxide, 235-6°; and 7-bromo-4,5-dihydro-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one, 191-2°.

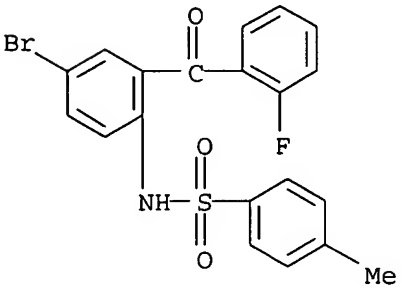
IT **747-99-9P 805-61-8P 909-51-3P 4142-76-1P 4873-59-0P 5649-39-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 747-99-9 CAPLUS

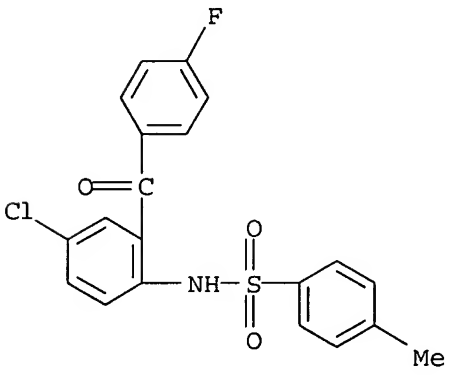
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



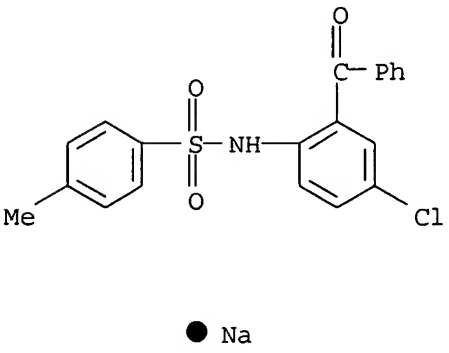
RN 805-61-8 CAPLUS
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



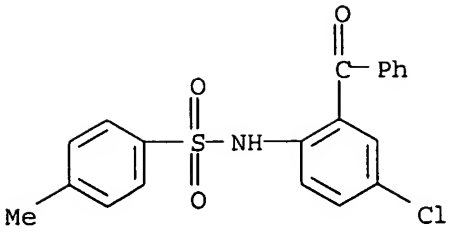
RN 909-51-3 CAPLUS
CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



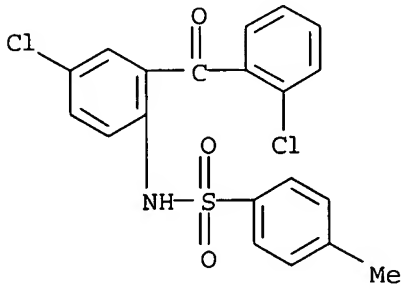
RN 4142-76-1 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)



RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)

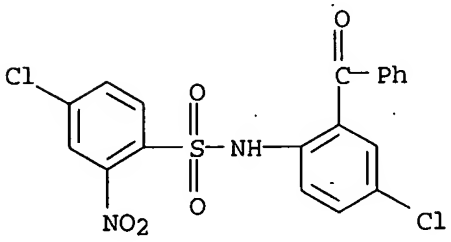


RN 5649-39-8 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)

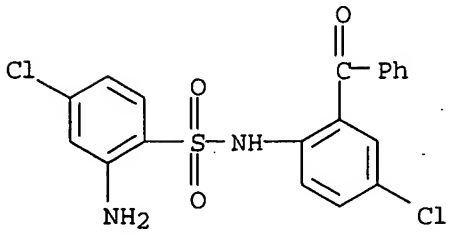


L4 ANSWER 44 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1968:477247 CAPLUS
DN 69:77247
TI Preparation of 2H-1,2,3-benzothiadiazine 1,1-dioxides, 11H-11,11a-dihydrobenzimidazo[1,2-b][1,2]benzisothiazole 5,5-dioxides, 6H-dibenzo[c,g][1,2,5]thiadiazocine 5,5-dioxides and 5H-dibenzo[c,g][1,2,6]thiadiazocine 6,6-dioxides
AU Wright, John B.
CS Upjohn Co., Kalazoo, MI, USA
SO Journal of Heterocyclic Chemistry (1968), 5(4), 453-9
CODEN: JHTCAD; ISSN: 0022-152X
DT Journal
LA English
OS CASREACT 69:77247
AB o-Benzoylbenzenesulfonyl chlorides (I) were prepared conveniently from aminobenzophenones by diazotization followed by reaction with SO2 in the presence of Cu+, according to the general method of Meerwein. Reaction of I with hydrazine led to 4-phenyl-2H-1,2,3-benzothiadiazine 1,1-dioxides, which could be methylated and acetylated readily in the 2-position. The 2-methyl derivative was prepared by reaction of I with methylhydrazine. Catalytic hydrogenation of 6-chloro-4-phenyl-2H-1,2,3-benzothiadiazine 1,1-dioxide gave the 3,4-dihydro derivative Reaction of I with o-phenylenediamine followed by cyclodehydration gave 11H-11,11a-dihydrobenzimidazo[1,2-b]-[1,2]benzoisothiazole 5,5-dioxides (II). One of the II derivs. in NaOH solution in the presence of MeI or benzyl chloride was transformed into 6-methyl- and 6-benzyl-5H-dibenzo[c,g]1,2,6]thia diazocine 5,5-dioxide (III), resp. 5H-Dibenzo[c,g] [1,2,6]thiadiazocine 6,6-dioxides were prepared also by cyclodehydration of 2-amino-2'-benzoylbenzenesulfonanilides.
IT **20434-83-7P 20434-84-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)

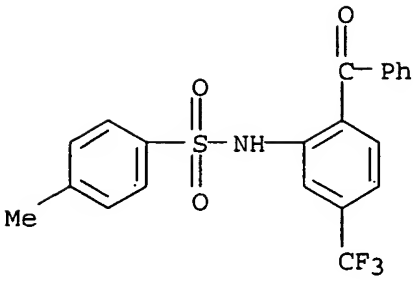
(preparation of)
RN 20434-83-7 CAPLUS
CN Benzenesulfonanilide, 2'-benzoyl-4,4'-dichloro-2-nitro- (8CI) (CA INDEX NAME)



RN 20434-84-8 CAPLUS
CN Benzenesulfonanilide, 2-amino-2'-benzoyl-4,4'-dichloro- (8CI) (CA INDEX NAME)



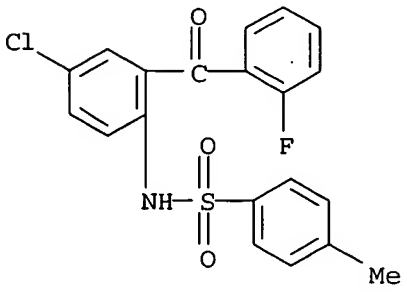
L4 ANSWER 45 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1968:419132 CAPLUS
DN 69:19132
TI 1H-2,1,5-Benzothiadiazocines. II
AU Hromatka, O.; Knollmueller, M.; Binder, D.; Desehler, H.; Schollnahammer, G.
CS Tech. Hochsch. Wein, Vienna, Austria
SO Monatshefte fuer Chemie (1968), 99(3), 1111-16
CODEN: MOCHAP
DT Journal
LA German
AB The synthesis of trifluoromethyl-substituted 2-vinylsulfonylaminobenzophenones and their cyclization to 1H-2,1,5-benzothiadiazocines, e.g. I, are reported.
IT **18509-90-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 18509-90-5 CAPLUS
CN p-Toluenesulfono-m-toluidide, 6'-benzoyl-α',α',α'-trifluoro- (8CI) (CA INDEX NAME)



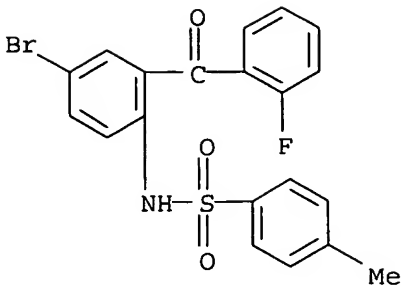
L4 ANSWER 46 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1968:95869 CAPLUS
DN 68:95869
TI 2-N-Substituted aminobenzophenones
IN Reeder, Earl; Sternbach, Leo H.
PA Hoffmann-La Roche Inc.
SO U.S., 26 pp. Continuation-in-part of U.S. 3051701
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3344183		19670926		
			CH	19601202

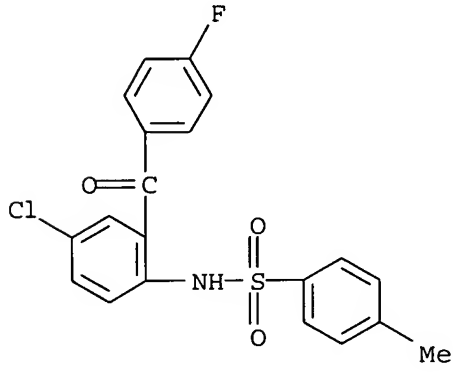
AB The disclosure is the same but the claims are different.
IT **747-99-9P 805-61-8P 909-51-3P**
4142-76-1P 4873-59-0P 5649-39-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 747-99-9 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



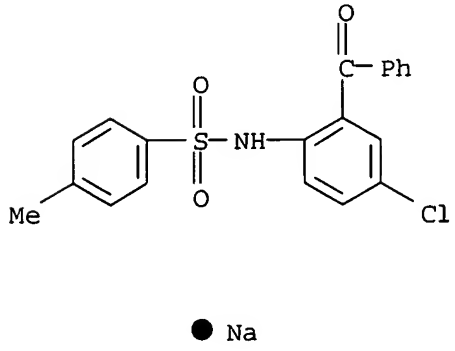
RN 805-61-8 CAPLUS
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



RN 909-51-3 CAPLUS
CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)

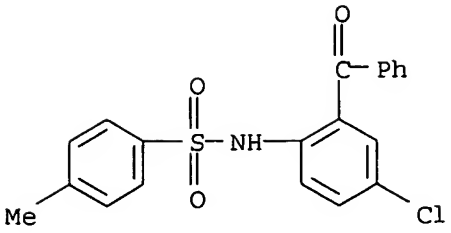


RN 4142-76-1 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)

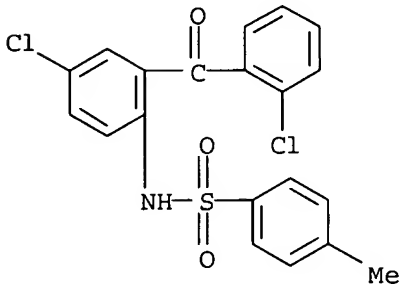


● Na

RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 5649-39-8 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 47 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1968:69054 CAPLUS
DN 68:69054
TI 1,4-Benzodiazepine derivatives
IN Reeder, Earl; Sternbach, Leo H.; Keller, Oscar; Steiger, Norbert; Stempel, Arthur
PA Hoffmann-La Roche, F., und Co., A.-G.
SO Patentschrift (Switz.), 16 pp.
CODEN: SWXXAS
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CH 414652		19661230		
				US	19591210
				US	19600426
	DE 1290143			DE	
	US 3427304		19690000	US	

AB In addition to a description of the title compds. mentioned in the earlier patents (loc. cit.) the preparation of some new ones and of the starting materials by conventional methods are given. 2-Chloroacetamido-5-chlorobenzophenone, m. 117-18° (C6H6-petroleum ether) is prepared from 2-amino-5-chlorobenzophenone (I) and ClCH2COCl; 2-(α-bromopropionamido)-5-chlorobenzophenone, m. 114-15°, from I and MeCHBrCOBr; 2-aminoacetamido-5-nitrobenzophenone (II), m. 166-7° (CHCl3-Et2O) (decomposition), from 2-bromoacetamido-5-nitrobenzophenone (III) and NH3 in MeOH. II heated 5 min. at 165-87° gives 7-nitro-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one (IIIa). 2-Amino-5-nitrobenzophenone and BrCH2COBr (IV) give III, m. 155-6°. 2-Amino-4-nitrobenzophenone and IV gives 2-bromoacetamido-4-nitrobenzophenone, m. 120-1°, which with NH3-MeOH gives

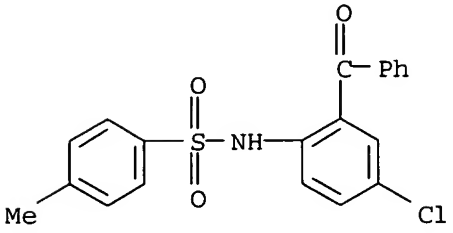
8-nitro-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one, m. 252° (decomposition) (EtOH). I and p-MeC6H4SO2Cl gives the Na salt (V) of 2-(p-toluenesulfonamido)-5-chlorobenzophenone, m. 298-9° (HCONMe2-CHCl3), which, refluxed 1.5 hrs. in MeCN with allyl bromide, gives 2-allylamino-5-chlorobenzophenone (VI), m. 76-7°; VI treated with IV gives 2-(α-bromo-N-allylacetamido)-5-chlorobenzophenone, m. 81-2° (C6H14); treated with NH3-MeOH it gives 1-allyl-7-chloro-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one, m. 105-6° (C6H14). 2-Methylamino-5-chlorobenzophenone and IV gives 2-(α-bromo-N-methylacetamido)-5-chlorobenzophenone, m. 95-6° (Et2O-petroleum ether), which with NH3-MeOH gives 7-chloro-1-methyl-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one, m. 125-6° (Et2O). V (61.2 g.), 30 ml. PhCH2Cl, 0.5 g. NaI and 250 ml. MeCN refluxed 5 hrs. gives 2-(N-benzyl-p-toluenesulfonamido)-5-chlorobenzophenone, m. 116-18°, which treated at 145° with 70% H2SO4 gives 2-benzylamino-5-chlorobenzophenone, m. 86-7°; this treated with IV gives 2-(α-bromo-N-benzylacetamido)-5-chlorobenzophenone, m. 159-60°. 2-Aminoacetamido-2',5-bis(trifluoromethyl)benzophenone is heated 0.5 hr. at 210° to give 2',5-bis(trifluoromethyl)-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one, m. 226-7° (C6H6-C6H14). 2-Amino-6-chlorobenzophenone and IV gives 2-bromoacetamido-6-chlorobenzophenone, m. 97-8° (EtOAc-C6H14). 2-Bromoacetamido-3-chlorobenzophenone m. 129-30°. Condensation of aceto-m-anisidine with BzCl in CS2 in the presence of AlCl3 gives 2-acetamido-4-methoxybenzophenone, m. 118-19.5° (dilute EtOH), which, refluxed 3 hrs. with alc. HCl and then condensed with IV, gives 2-bromoacetamido-4-methoxybenzophenone, m. 106-7.5° (C6H6-C6H14). Bromination of 3-acetamido-4-methoxybenzophenone gives 2-acetamido-5-bromo-4-methoxybenzophenone, m. 144-6° (dilute EtOH), which when hydrolyzed with boiling alc. HCl gives 2-amino-5-bromo-4-methoxybenzophenone, m. 150-1.5° (C6H6-C6H14); it is condensed with IV to give 2-bromoacetamido-5-bromo-4-methoxybenzophenone, m. 144-5°. Addition of a Grignard reagent from 10.3 g. o-bromoanisole and 1.3 g. Mg in 100 ml. Et2O to 9.8 g. 6-chloro-2-methyl-3,1-4H-benzoxazin-4-one (VII) in 150 ml. icecold C6H6 and 50 ml. Et2O gives 2-acetamido-5-chloro-2'-methoxybenzophenone, m. 124-6°, which saponified and condensed with IV gives 2-bromoacetamido-5-chloro-2'-methoxybenzophenone, m. 129-30.5° (MeCN). Condensation of m-MeOC6H4MgBr with VII gives 2-acetamido-5-chloro-3'-methoxybenzophenone, which saponified and treated with IV gives 2-bromoacetamido-5-chloro-3'-methoxybenzophenone, 97-8.5° (C6H14). Saponification of 2-acetamido-5-chloro-4'-methoxybenzophenone and condensation with IV give 2-bromoacetamido-5-chloro-4'-methoxybenzophenone, m. 116-18° (C6H6-C6H14). Condensation of 2-amino-3-nitrobenzophenone in MeNO2 with IV gives 2-bromoacetamido-3-nitrobenzophenone, m. 120.5-1.5°. Treatment of 2-bromoacetamido-5-chloro-2'-fluorobenzophenone (VIII) with liquid NH3 gives 2-aminoacetamido-5-chloro-2'-fluorobenzophenone, m. 115-15.5°, which, refluxed 17 hrs. in C5H5N, PhMe, or p-cymene gives up to 90% 7-chloro-5-(2-fluorophenyl)-3H-1,4-benzodiazin-2(1H)-one, m. 205-6° (MeOH-C6H14); it is also obtained when VIII is stirred overnight with alc. NH3. Condensation of 176 g. o-FC6H4COCl and 64 g. p-ClC6H4NH2 at 180° in the presence of ZnCl2 gives 2-amino-5-chloro-2'-fluorobenzophenone, m. 94-5° (MeOH), which condensed with IV gives 2-bromoacetamido-5-chloro-2'-fluorobenzophenone (IX), m. 132.5-33°. IX and liquid NH3 gives 2-aminoacetamido-5-bromo-2'-fluorobenzophenone, m. 110-11°. Condensation of o-FC6H4COCl with p-BrC6H4NH2 in the presence of ZnCl2 gives 2-amino-5-bromo-2'-fluorobenzophenone, m. 101-2°, which with IV gives 2-bromoacetamido-5-bromo-2'-fluorobenzophenone, m. 139-40°. 8-Trifluoromethylbenzophenone m. 184-6°. The following

R-substituted-3H-1,4-benzodiazepin-2(1H)-one are prepared (R and m.p. given): 1-methyl-7-chloro-5-(2-chlorophenyl), 135-8°; 7-chloro-5-(o-tolyl), 180-1°; 7,8-dimethyl-5-(2-chlorophenyl), 259-60°; 7-chloro-1-hydroxymethyl-5-phenyl, 201-2°; 7-chloro-1-ethyl-5-phenyl, 127-8°; 7-chloro-5-(2-methoxyphenyl)-1-methyl, 161-2°; 7-chloro-1-methyl-5-(2-fluorophenyl), oil.

IT **4873-59-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 48 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1967:490721 CAPLUS

DN 67:90721

TI Quinazolines and 1,4-benzodiazepines. XXXVI. Formation of 1,3-dihydro- and 1,5-dihydro-1,4-benzodiazepines from tosyl- and mesyl-substituted 1,3,4,5-tetrahydro-5-phenyl-1,4-benzodiazepine derivatives

AU Fryer, R. Ian; Winter, D. P.; Sternbach, Leo H.

CS Chem. Res. Dep., Hoffmann-La Roche, Inc., Nutley, NJ, USA

SO Journal of Heterocyclic Chemistry (1967), 4(3), 355-9
CODEN: JHTCAD; ISSN: 0022-152X

DT Journal

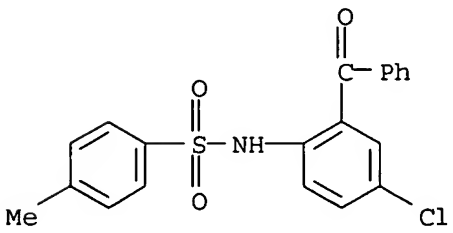
LA English

AB cf. CA 67: 82198r. The treatment of 4-sulfonyl derivs. of 5-phenyl-1,3,4,5-tetrahydro-1,4-benzodiazepin-2-ones with base was shown to result in the formation of 1,3-dihydro- or 1,5-dihydro-1,4-benzodiazepin-2-ones depending upon the conditions used. The base treatment of 1-sulfonyl-substituted 2,3-dihydro-1,4-benzodiazepines, such as I, was shown to give the vinylimines, such as II.

IT **4873-59-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 49 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1967:37669 CAPLUS
DN 66:37669
TI Benzophenone derivatives
IN Sternbach, Leo H.; Keller, Oscar; Steiger, Norbert
PA Hoffmann-La Roche, F., und Co., A.-G.
SO Patentschrift (Switz.), 8 pp.
CODEN: SWXXAS
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CH 408045		19660228		
			US	19600627

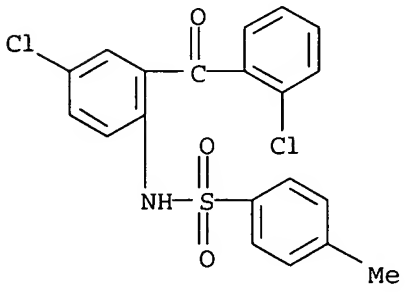
AB A halogenated benzophenone (I) (Hal-halogen) is treated with NH3 to give the amino derivative (II). II have anticonvulsant, muscle-relaxing, and sedative properties and are useful intermediates for preparation of 5-phenyl-3H-1,4-benzodiazepin-2-1H-ones having the same properties. Thus, 5 g. 2-bromoacetamido-5-trifluoromethylbenzophenone (III) in 150 ml. anhydrous Et2O is treated 1 hr. with 50 ml. anhydrous liquid NH3. The solution is refluxed for 5 hrs. (reflux temperature of NH3) with a dry ice-Me2CO condenser and the NH3 distilled overnight. After 5 days at room temperature, the suspension is worked up to give crude 2-aminoacetamido-5-trifluoromethylbenzophenone, m. 97-9°. To obtain III, 80 g. NaNO2 is added slowly and with stirring to 460 ml. concentrated H2SO4 and at 70° a clear solution is obtained. At 10-20°, 200 g. 2-chloro-5-trifluoromethylaniline is added slowly, the mixture stirred 1 hr., and poured over 200 g. NaCl and 1.6 kg. dry ice. The excess NaCl is filtered off, a solution of 280 g. ZnCl2 in 300 ml. H2O added, giving the ZnCl2 double salt of the corresponding diazonium compound (IV), which is filtered off after keeping overnight at 0° and washed with cold saturated NaCl solution To a solution of 120 g. NaCN and 72 g. CuCN in 300 ml. H2O, 291 g. IV is added with cooling and stirring and, after the addition of 24 g. Na2CO3, the mixture is heated 1 hr. to 20°, then 0.5 hr. to 70°. After cooling and extracting with Et2O, the crude 2-chloro-5-trifluoromethylbenzonitrile (V) is steam-distilled and recrystd. from C6H14, m. 39-40°. To a solution of PhMgBr (from 9.5 g. Mg, 58.5 g. PhBr and 500 ml. anhydrous Et2O) a solution of 39 g. V in 200 ml. C6H6 is added with stirring, 400 ml. solvent distilled, and the mixture refluxed 16 hrs. NH4Cl (40 g.) and 200 g. ice is added, the mixture extracted with C6H6, and 2-chloro-5-trifluoromethylbenzo-phenonimine-HCl (VI) precipitated with 40 ml. concentrated HCl VI is filtered off, washed, and dried in vacuo m. 248-51°. VI (60 g.) is refluxed overnight with stirring with a mixture of 300 ml. PhMe and 300 ml. 25% H2SO4, the PhMe layer separated, washed with H2O, dried, evaporated in vacuo, the residue recrystd. from C6H6, to give pure 2-chloro-5-trifluoromethylbenzophenone (VII), m. 39-40°. A mixture of 50 g. VII and 500 ml. concentrated aqueous NH3 in a closed vessel for 10 hrs. at 140° in the presence of 10 g. CuCl gave yellow crystals of 2-amino-5-trifluoromethylbenzophenone (VIII), m. 81-2°. VIII (26.5 g.) in 250 ml. anhydrous Et2O and 7.5 ml. pyridine, is stirred, cooled to 0°, and a solution of 23.2 g. BrCH2COBr in 50 ml. anhydrous Et2O added. After stirring 0.5 hr. at 0° and 3 hrs. at room temperature, the mixture is worked up to give crude III m. 102-3°. Also prepared were: 2-aminoacetamido-2',5-bis(trifluoromethyl)benzophenone, m. 108-9°;

αamino-2-(trifluoromethylbenzoyl)acetanilide, m. 141-2°;
2-(2-aminoacetamido)-2',5-dichlorobenzophenone, m. 122-4°;
2-aminoacetamido-5-chloro-2'-methylbenzophenone, m. 121-3°;
2-aminacetamido-5-chloro-2-fluorobenzophenone, m. 115-15.5°;
2-aminoacetamido-5-bromo-2'-fluorobenzophenone, m. 110-11°;
2-aminoacetamido-5-chlorobenzophenone, m. 97-9°;
2-aminoacetamido-5-chlorobenzophenone-HCl, m. 192-3° (decomposition);
2-aminoacetamido-6-nitrobenzophenone, m. 133-4°;
2-aminoacetamido-5-nitrobenzophenone, m. 166-7°;
2-aminoacetamido-5-nitrobenzophenone-HCl, m. 212-14° (decomposition);
2-aminoacetamido-4-nitrobenzophenone, m. 118-20°;
2-aminoacetamido-5-methyl-benzophenone, 80° (decomposition);
5-bromo-2-aminoacetamido-4-methoxybenzophenone, m. 161-3°, it solidifies at 165-8° and melts agains at 248-51°;
2-aminoacetamido-5-methylthiobenzophenone-HCl, m. 169-71°;
2-(α-aminopropionamido)-5-nitrobenzophenone, m. 155-6°;
2-amino-4'-chloro-2'-(2-chlorobenzoyl)-N-methylacetanilid, m. 157-9°. The preparation of the majority of the intermediates is given.

IT **5649-39-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 5649-39-8 CAPLUS

CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 50 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1967:28808 CAPLUS
DN 66:28808
TI 2-(α-Halo-lower alkanoylamino)benzophenones
IN Reeder, Earl; Sternbach, Leo H.
PA Hoffmann-La Roche Inc.
SO U.S., 26 pp. Continuation-in-part of U.S. 3051701
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3270053		19660830		
			CH	19601202

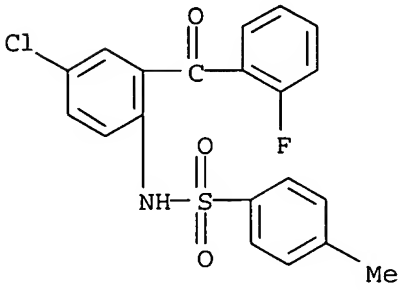
AB Continuation-in-part of U.S. 3,051,701 (CA 57, 16641c). The disclosures are the same as U.S. 3,136,815 (CA 61, 9515f), but the claims are different. Compds. described here but not previously abstracted are: m-[5,2-Cl(H2N)C6H3CO]-C6H4F, m. 90-1°; 5,2-Me(HO2C)C6H3N:CHNMe2.HCl, m. 196-8° (MeCN-EtOH); and 7-chloro-3-isopropyl-5-phenyl-3H-1,4 benzodiazapin-2(1H)-one, m.

226-7° (Et2O-petroleum ether).

IT **747-99-9P**, p-Toluenesulfonanilide, 4'-chloro-2'-(o-fluorobenzoyl)-
805-61-8P 909-51-3P 4142-76-1P
4873-59-0P 5649-39-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

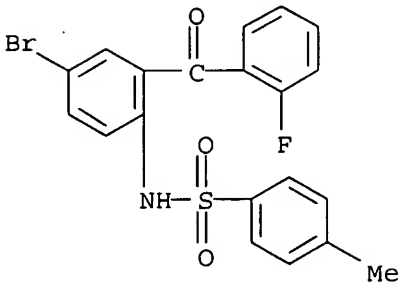
RN 747-99-9 CAPLUS

CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



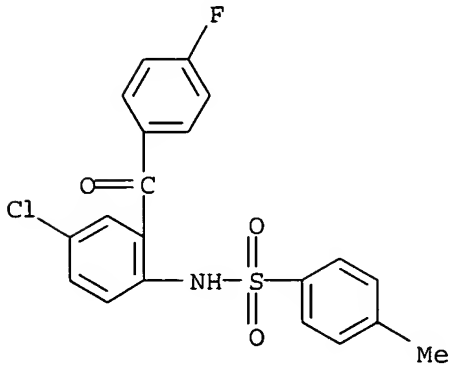
RN 805-61-8 CAPLUS

CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)

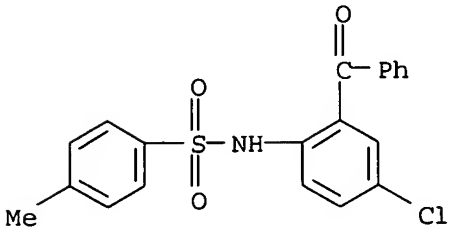


RN 909-51-3 CAPLUS

CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)

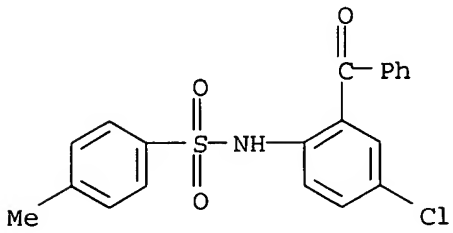


RN 4142-76-1 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)

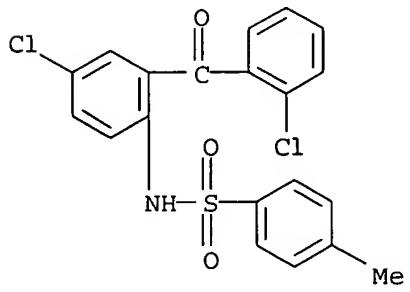


● Na

RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)

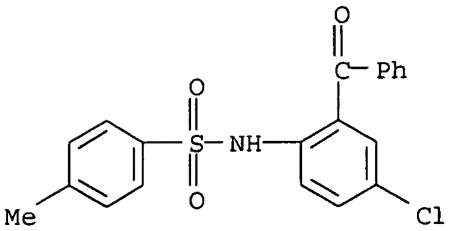


RN 5649-39-8 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



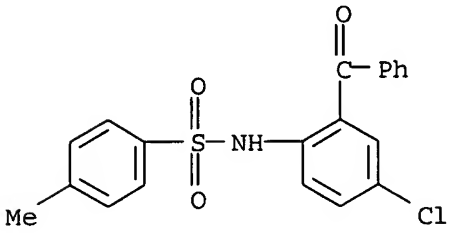
L4 ANSWER 51 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1966:499248 CAPLUS
DN 65:99248
OREF 65:18558e-g
TI Trichloroacetoacetates. I. Synthesis and reactions of ethyl and β,β,β,-trifluoroethyl trichloroacetoacetates
AU Wald, David K.; Joullie, Madeleine M.
CS Univ. of Pennsylvania, Philadelphia

SO Journal of Organic Chemistry (1966), 31(10), 3369-74
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 65:99248
AB A study of the reaction of chloral and Et diazoacetate as a potential source of Et trichloroacetoacetate (I) showed that the main product of this reaction was Et 3-(trichloromethyl)glycidate. The reaction of trichloroacetyl chloride, ketene, and an alc., in liquid SO2, was found to be an excellent method to prepare trichloro-β-oxo esters. The acid hydrolysis of I yielded α,α,α-trichloroacetone but this reaction could not be utilized as a general synthetic route to trichloromethyl ketones because alkylation of the ester could not be accomplished. The reactions of I with amines were studied and the products formed depended on the basicity and structure of the amine. NH3 reacted with the ester to form Et malonamate. Primary aliphatic amines yielded malonamides and secondary amines formed amine salts. Aromatic amines did not react with I under similar conditions but in the presence of polyphosphoric acid they gave 2-trichloromethyl-4-quinolones. These compds. could be hydrolyzed to kynurenic acids (II), thus providing a new synthetic route to these compds. The condensation of I with o-phenylenediamine, under neutral conditions, yielded 4-(trichloromethyl)-1H-1,5-benzodiazepin-2(3H)-one. 32 references.
IT **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro-
(preparation of)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 52 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1966:499247 CAPLUS
DN 65:99247
OREF 65:18558d-e
TI Reactions of phosphorus compounds. XI. A general synthesis of substituted 1,2-dihydroquinolines
AU Schweizer, Edward E.; Smucker, Leland D.
CS Univ. of Delaware, Newark
SO Journal of Organic Chemistry (1966), 31(10), 3146-9
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 65:99247
AB A series of acyl- and arylsulfonyl-1,2-dihydroquinolines was prepared from substituted o-formyl- and o-ketoanilines employing vinyltriphenylphosphonium bromide as the cyclization agent. 21 references.
IT **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro-
(preparation of)

RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



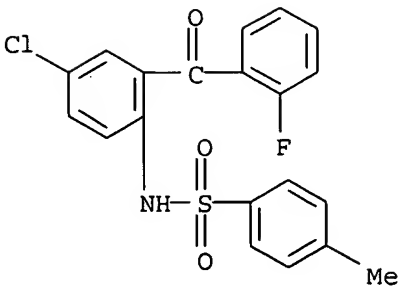
L4 ANSWER 53 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1966:103893 CAPLUS
DN 64:103893
OREF 64:19498a-h
TI 2-(N-Substituted amino)halobenzophenones
IN Reeder, Earl; Sternbach, Leo H.
SO 11 pp.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3239564		19660308	US	
				CH	19601202

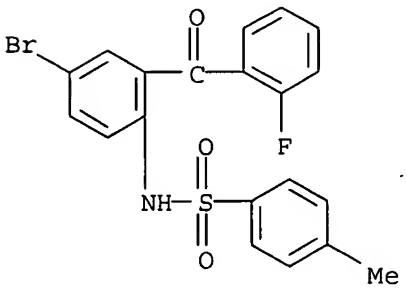
AB The title compds. (I) were prepared by published methods by condensing substituted benzoyl chlorides with anilines in the presence of ZnCl2 or by reaction of II with Grignard reagents. I were used as intermediates for III, IV, V, and VI which are sedatives, muscle relaxants, and anticonvulsants. The I prepared were tabulated. Further prepared were II (R, m.p. given): 5-Cl, 143.5-46°; 8-Cl, 131.5-2.5°; 7-Cl, solid. 2,5-R(NHR1)C6H3C(NOH)C6H4R2-p (III) (α or β form, R, R1, R2, m.p. given): α, H, Br, Mc, 204-5°; β, H, Br, Mc, 115-16°; α, ClCH2CO, Br, Me, 179-80°; α, H, Cl, Cl, 151-4°. Other compds. prepared were listed in the 2nd table. Also prepared was 2-chloro-2'-nitrobenzophenone, m. 76-9°, and 2-dimethylformamidinoanthranilic acid-HCl.

IT **747-99-9**, p-Toluenesulfonanilide, 4'-chloro-2'-(o-fluorobenzoyl)-
805-61-8, p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)-
909-51-3, p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)-
4142-76-1, Sodium, [N-(2-benzoyl-4-chlorophenyl)-p-toluenesulfonamido]- **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro- **5649-39-8**, p-Toluenesulfonanilide, 4'-chloro-2'-(o-chlorobenzoyl)-
(preparation of)

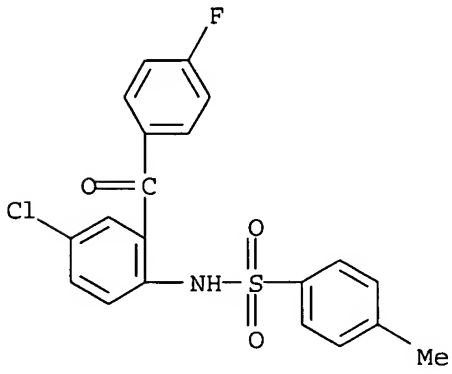
RN 747-99-9 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



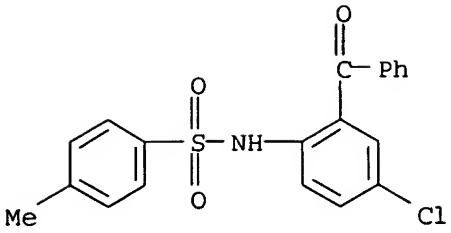
RN 805-61-8 CAPLUS
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



RN 909-51-3 CAPLUS
CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)

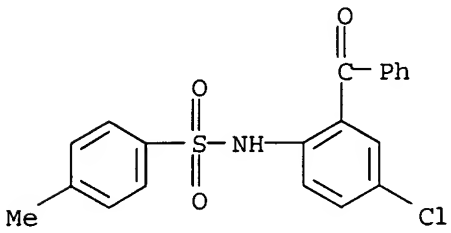


RN 4142-76-1 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)

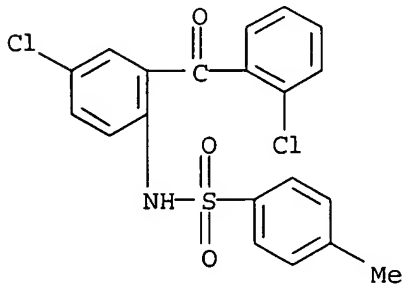


● Na

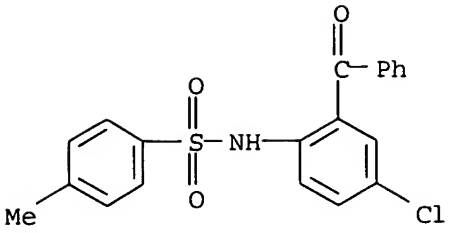
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 5649-39-8 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



IT **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro-, (sodium derivative)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)

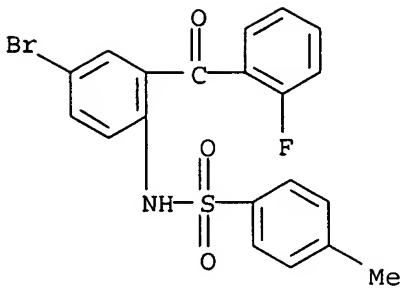


L4 ANSWER 54 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1966:103892 CAPLUS
DN 64:103892
OREF 64:19497f-h,19498a
TI Alkyl substituted hydrocinnamaldehydes
PA Soda Aromatic Co., Ltd.
SO 21 pp.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 6502482		19651025	NL	
				JP	19640422

AB The title compds., useful as perfumes, can be prepared by selective hydrogenation of an unsatd. aldehyde p-R1C6H4CH:CR2CHO together with a saturated primary or secondary alc. or H in the vapor phase under reduced pressure at 200-400° and a hydrogenation catalyst. Thus, a mixture of 1 mole gaseous p-isopropyl-α-methylcinnamaldehyde (I), b6 130-3°, n20D 1.5800, and 4 moles cyclohexanol (II) is fed through a Cu-Zn catalyst reactor at 60 mm. Hg and 265 ± 5° to yield .apprx.100% p-isopropyl-α-methylhydrocinnamaldehyde (III) (phys. consts. see below), and a trace of p-isopropyl-α-methylhydrocinnamic alc. (IV). Similarly, III is obtained from I with 2-octanol, with IV and H, or a mixture containing II and H. I (1 mole) was hydrogenated at 70-4° over 6 g. Raney Ni to yield 38% III, 46% IV, and 16% I. This mixture was fed through a Cu-Zn catalyst reactor at 260-70° to yield III, containing a trace I and a small amount IV; this reaction was also carried out in the presence of II or H to give similar results. Similarly were prepared the following substituted hydrocinnamic aldehydes (R1, R2, b.p./mm., n20D, d25, acid value, and % yield given): iso-Pr, Me (III), 104-5°/3, 1.5064, 0.947, 1.06, 95.65; tert-Bu, Me, 126-7°/6, 1.5050, 0.9390, 1.54, 98.52; sec-Bu, Me, 106-7°/1.5, 1.5030, 0.9391, 1.84, 98.3; H, amyl, 126-8°/4, 1.4990, --, 2.16, 98.1; H, Me, 95-6°/10, 1.5110, 0.9204, 1.45,.

IT **805-61-8**, p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (preparation of)
RN 805-61-8 CAPLUS
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)

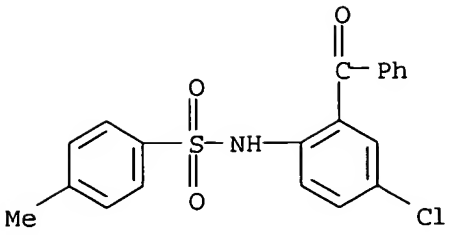


L4 ANSWER 55 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1966:18973 CAPLUS
DN 64:18973
OREF 64:3425g-h,3426a
TI 2-Methyl(and benzyl)amino-5-chlorobenzophenones
IN Reeder, Earl; Sternbach, Leo H.
PA F. Hoffmann-La Roche & Co., A.-G.
SO 2 pp.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 972975		19641021	GB	19601209

AB Division of Brit. 972,966 (See Ger. 1,136,709, CA 59, 12827g). The title compds. (I) are prepared by methylating or benzylating 2-tosylamino-5-chlorobenzophenone (II), m. 120-1°, by treating the Na salt with methyl or benzyl halide, or with Me2SO followed by hydrolysis. These compds. are useful intermediates in the preparation of 1-substituted 5-phenyl-2,3-dihydro-1H-1,4-benzodiazepinones. In an example, II (0.0413 mole) was dissolved in (200 ml.) PhMe, and 50 ml. PhMe distilled off at 65°, 11.5 ml. of a solution of 10 g. Na in (100 ml.) MeOH was added, MeOH was distilled and the reaction mixture refluxed 1.5 hrs., PhMe (10 ml.) was distilled, and 0.066 mole Me2SO added and refluxed 1.5 hrs. The organic layer was separated from the cooled mixture and evaporated in vacuo. Crystallization from C6H6-petroleum ether gave 2(N-methyl-p-tolylsulfonamido)-5-chlorobenzophenone (III), m. 151-2° (EtOH). III was added to 200 ml. 70% (volume/volume) H2SO4 at 105° and heated 8 min. at 145° to give a clear solution The clear solution was poured onto crushed ice and diluted with H2O to give 2-methylamino-5-chlorobenzophenone, yellow needles, m. 95-6°. 2-Benzylamino-5-chlorobenzophenone, yellow prisms, m. 86-7° (EtOH), was prepared from II and PhCH2Cl, with NaI as the catalyst.

IT **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro- (preparation of)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



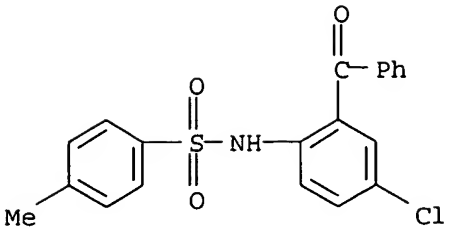
L4 ANSWER 56 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1965:498022 CAPLUS
DN 63:98022
OREF 63:17978e-g
TI 2-Alkenylamino-5-halobenzophenones
IN Reeder, Earl; Sternbach, Leo H.
PA F. Hoffmann-La Roche & Co., A.-G.
SO 2 pp.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 972971		19641021	GB	19601209

AB Division of Brit. 972,968 (see Ger. 1,136,709, CA 59, 12827g). 2,5-H2NClC6H3Bz (231.5 g.) and 231.5 g. p-MeC6H4SO2Cl in I l. C5H5N was refluxed 1.5 hrs., 5 ml. C5H5N distilled, the mixture poured into H2O, the solid dissolved in 600 ml. boiling C6H6, and 150 ml. 40% (weight/volume) aqueous NaOH added to give 348.5 g. 2-tosyl-amino-5-chlorobenzophenone Na salt (I), m. 298-9 ° (HCONMe2-CHCl3). A suspension of 31.5 g. I in 300 ml. anhydrous MeCN was refluxed 1.5 hrs. with 18.7 g. CH2:CHCH2Br, NaBr filtered off, and the filtrate concentrated to an oil (II). A solution of 25 g. II in 40 ml. AcOH was added to 30 ml. 70% (by volume) H2SO4 at 105° and the mixture heated to 145°, poured on 2 l. ice, and diluted with 1 l. H2O to give a gummy solid which was dissolved in 1.5 l. Et2O and the solution washed with aqueous NaOH, dried, and evaporated to yield 2-allylamino-5-chlorobenzophenone, m. 76-7° (MeOH), a useful intermediate in the preparation of sedatives, muscle relaxants, and anticonvulsants.

IT **4142-76-1**, Sodium, [N-(2-benzoyl-4-chlorophenyl)-p-toluenesulfonamido]-
(preparation of)

RN 4142-76-1 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)



● Na

L4 ANSWER 57 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1965:43721 CAPLUS
DN 62:43721
OREF 62:7694b-e
TI 2(or 4)-Substituted-2'-aminobenzophenones
IN Fryer, Rodney I.; Sternbach, Leo H.
PA F. Hoffmann-La Roche & Co., A.-G.
SO 24 pp.
DT Patent
LA Unavailable
FAN.CNT 1

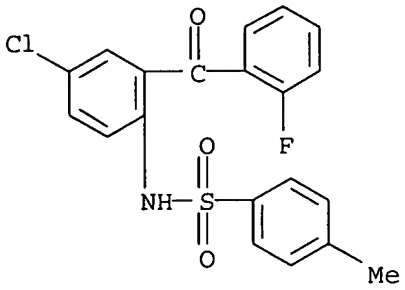
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1375300		19641016	FR	
				US	19621113
	BE 637329			BE	
	GB 982909			GB	
	NL 298186			NL	
	US 3261867		1966	US	

AB 2-Amino-2'(or 4')-fluorobenzophenones are treated with NaOMe, NaSMe, or an amine to give compds. of the general formula I. Thus, 50 g. 4,2-Cl(o-FC6H4CO)C6H3-NH2 in 300 ml. tetrahydrofuran is hydrogenated in the presence of 10 g. Norite, 30.0 g. KOAc, and 2.5 ml. 20% Pd chloride to give 2-amino-2'-fluorobenzophenone (II), m. 126-8° (MeOH). A solution of 1.4 millimoles II and NaOMe in MeOH (20 ml. containing 4.44 millimoles/ml.) in 50 ml. PhMe was refluxed 2 hrs. and evaporated in vacuo, the residue treated with 100 ml. H2O and 100 ml. CH2Cl2, and the CH2Cl2 solution evaporated to give 2-amino-2'-methoxybenzophenone, m. 111-12° (MeOH). Similarly prepared were the following I (R, R', Y, X, X', and m.p. given): H, tosyl, H, MeO, H, 134-5° (MeOH); H, tosyl, Br, MeO, H, 114-15°; H, tosyl, Cl, H, MeO, 128-30°; Me, tosyl, Cl, MeO, H, 150-1° (EtOH); Me, tosyl, Br, MeO, H, 154-58; H, H, Cl, MeO, H, 81-3° (ether-hexane); H, H, Cl, MeS, H, 100-100.5° (hexane); H, H, Cl, NMe2, H, 85-6° (hexane-ether); H, H, Cl, piperidino, H, 110-14° (hexane). A mixture of 7.6 g. o-(o-FC6H4CO)C6H4CN (III), 6.7 g. PhCH2NH2, and 70 ml. PhMe was refluxed 2 hrs. to give o-(o-NCC6H4CO)C6H4NHCH2Ph (IV), m. 142-3.5° (ether). A mixture of 6.0 g. IV, 1.0 g. 10% Pd-C, and 1.4 ml. concentrated HCl in 150 ml. HOAc was treated with H to give 2-amino-2'-cyanobenzophenone, m. 132-3° (Me2CO-hexane). Similarly prepared was I (R = R' = X' = Y = H, X = NO2), m. 146-9° (MeOH). Also prepared were the following I (R, R', Y, X, X', and m.p. given): H, tosyl, H, F, H, 129.5-30° (EtOH); H, tosyl, Br, F, H, 114-15° (MeOH); H, H, Cl, H, F, 108-9°; H, tosyl, Cl, H, F, 126-8° (MeOH); H, tosyl, Cl, F, H, 119-20° (MeOH). Also prepared was III, m. 73-4° (ether-petr. ether).

IT **747-99-9**, p-Toluenesulfonanilide, 4'-chloro-2'-(o-fluorobenzoyl)-
805-61-8, p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)-
909-51-3, p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)-
1823-22-9, p-Toluenesulfonanilide, 2'-o-anisoyl-4'-bromo-
2237-07-2, p-Toluenesulfonanilide, 2'-p-anisoyl-4'-chloro-
(preparation of)

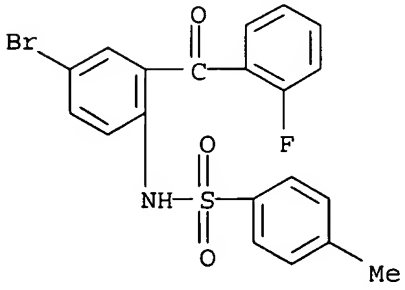
RN 747-99-9 CAPLUS

CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



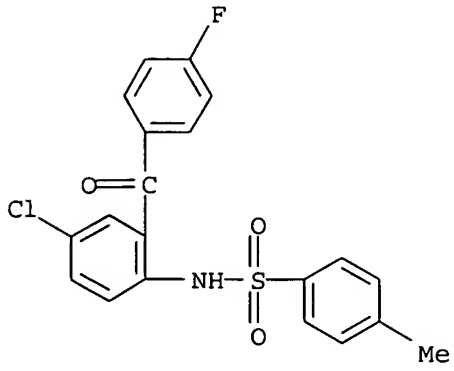
RN 805-61-8 CAPLUS

CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)

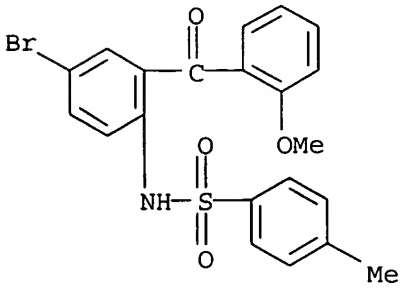


RN 909-51-3 CAPLUS

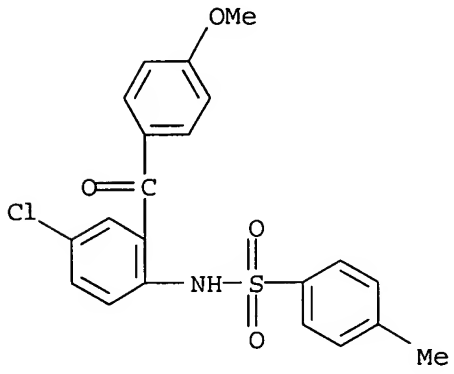
CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



RN 1823-22-9 CAPLUS
CN p-Toluenesulfonanilide, 2'-o-anisoyl-4'-bromo- (7CI, 8CI) (CA INDEX NAME)



RN 2237-07-2 CAPLUS
CN p-Toluenesulfonanilide, 2'-p-anisoyl-4'-chloro- (7CI, 8CI) (CA INDEX NAME)



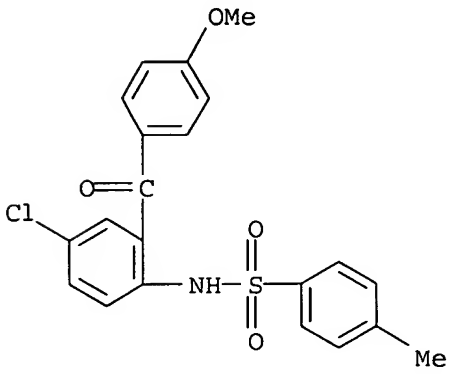
L4 ANSWER 58 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1965:5004 CAPLUS
DN 62:5004
OREF 62:946e-f
TI Metabolism of diazepam in rabbits
AU Jommi, G.; Manitto, P.; Silanos, M. A.
CS Fac. Sci., Milano
SO Archives of Biochemistry and Biophysics (1964), 108(2), 334-40
CODEN: ABBIA4; ISSN: 0003-9861
DT Journal
LA English
AB Urine of rabbits treated with large doses of diazepam (I) was analyzed. After hydrolysis 3 compds. were isolated and identified: 2-methylamino-5-chlorobenzophenone (II), 2-amino-5-chlorobenzophenone, and 2-methylamino-5-chloro-4'-hydroxybenzophenone. Another substance was tentatively identified by thin-layer chromatography as 2-amino-5-chloro-4'-hydroxybenzophenone. These compds. were not present as such in urine, but were derived from conjugated precursors. Since diazepam itself was transformed into II after hydrolysis, it was impossible to determination whether the demethylation and hydroxylation occurred on diazepam or on one of its metabolites. The identified metabolites

represented <10% of the injected diazepam.

IT **2237-07-2**, p-Toluenesulfonanilide, 2'-p-anisoyl-4'-chloro- (preparation of)

RN 2237-07-2 CAPLUS

CN p-Toluenesulfonanilide, 2'-p-anisoyl-4'-chloro- (7CI, 8CI) (CA INDEX NAME)



L4 ANSWER 59 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1964:454909 CAPLUS

DN 61:54909

OREF 61:9515f-h,9516a-h,9517a-e,9518a-b

TI 5-Aryl-3H-1,4-benzodiazepin-2(1H)-ones

IN Reeder, Earl; Sternbach, Leo H.

PA Hoffmann-La Roche Inc.

SO 26 pp.

DT Patent

LA Unavailable

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3136815		19640609	US	
			CH	19601202
CH 396016			CH	
DE 1199776			DE	
GB 972969			GB	

AB I, II, III, and IV are prepared Thus, 26.2 g. 5,2-Cl(H2N)C6H3CPh:NOH (β-form) is treated with 12.4 g. ClCH2COCl in the presence of 3N NaOH to give 2-chloroacetamido-5-chlorobenzophenone β-oxime (V), m. 161-2°. V (6.4 g.) is treated 15 hrs. with 20 ml. N NaOH to give 7-chloro-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one (VI) 4-oxide (VII). A solution of 14.3 g. VII in 300 ml. dioxane is treated with H in the presence of 20 g. Raney Ni to give VI, m. 216-17° (Me2CO). A solution of 7.6 g. VII in 150 ml. HOAc is treated with H in the presence of 0.6 g. PtO2 to give 7-chloro-4-hydroxy-5-phenyl-4,5-dihydro-3H-1,4-benzodiazepin-2(1H)-one, m. 215-16° (HOAc). A solution of 10.8 g. VI in 120 ml. HOAc is treated with H in the presence of 1.2 g. Pt oxide to give the 4,5-dihydro derivative, m. 184.5-5.5° (dilute HOCNMe2). Also prepared are the following I (R2 = H): X, Ar, R, R1, m.p., X, Ar, R, R1, m.p.; Cl, Ph, Me, H, 188-9°; Me, Ph, H, H, 226-7°; Br, Ph, H, H, 230-1°; Me, Ph, H, Me, 234-5°; Br, p-tolyl, H, H, 237-8°; Cl, p-ClC6H4, H, H, 250-2°; Cl, Ph, allyl, H, 150-1°; Cl, o-ClC6H4, H, H, 248-9°; Cl, Ph, PhCH2, H, 151-2°; Cl, Ph, Et, H, 207-8°. Also prepared are the following II (R = R2 = H): X, Ar, R1, and m.p. given): Br, p-tolyl, AcNMe,

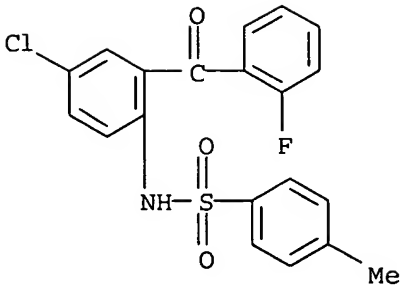
209-10°; Br, p-tolyl, MeNH, 255-6°; Cl, p-ClC6H4, MeNH, 254-5°; Cl, p-ClC6H4, AcNMe, 191-2°; Cl, o-ClC6H4, MeNH, 247-8° (decomposition); Cl, Ph, AcNMe, 186-7°. Also prepared are the following III (R3 = Z = H): X, Ar, R, R1, R2, m.p.; H, Ph, H, H, H, 182-3°; H, Ph, Me, H, H, 153.5-5.5°; Me, Ph, H, H, H, 209-10°; Me, Ph, H, H, Me, 210-11°; Cl, Ph, H, H, Cl, 207-8°; Cl, p-ClC6H4, H, H, H, 247-8°; Br, p-tolyl, H, H, H, 239-40°; Cl, Ph, Me, H, H, 125-6°; H, p-ClC6H4, H, H, H, 262-3°; Me, Ph, H, Me, H, 255-6°; Br, Ph, H, H, H, 220-1°; H, Ph, H, H, Cl, 174.5-6.5°; H, Ph, H, Cl, H, 214-15°; Cl, o-ClC6H4, H, H, H, 199-201°; Cl, o-ClC6H4, Me, H, H, 135-8°; Cl, o-tolyl, H, H, H, 180-1°; Cl, o-tolyl, Me, H, H, 137-9°; Cl, o-FC6H4, H, H, H, 205-6°; Cl, m-FC6H4, H, H, H, 200-1°; Br, o-FC6H4, H, H, H, 187-8°; Cl, o-FC6H4, Me, H, H, --; Br, o-FC6H4, Me, H, H, 132-2.5°; Me, o-ClC6H4, H, Me, H, 259-60°; Cl, Ph, CH2OH, H, H, 201-2°; Cl, Ph, PhCH2, H, H, 174-5°; Cl, Ph, Et, H, H, 127-8°; Cl, Ph, allyl, H, H, 105-6°; H, Ph, H, H, Me, 184-5°; H, Ph, H, Me, H, 255-6°; Me, o-ClC6H4, H, H, H, 223-4°; H, o-FC6H4, H, H, H, 180-1°; H, o-FC6H4, Me, H, H, 173-14°; Cl, p-FC6H4, H, H, H, 223-4°; F, Ph, H, H, H, 197-8°; H, o-ClC6H4, H, H, H, 212-13°; H, o-ClC6H4, Me, H, H, 135-7°; Cl, o-ClC6H4, HC:CCH2, H, H, 140-2°; Cl, o-ClC6H4, iso-Pr, H, H, 148-50°; Cl, o-ClC6H4, allyl, H, H, 128-30°; Br, Ph, H, H, H, 219-20.5°; Me, Ph, H, H, H, 209-10°; Cl, m-tolyl, H, H, H, 148-9°; F, Ph, Me, H, H, 109-10°; Cl, p-ClC6H4, Me, H, H, 154-6°; Cl, Ph, (CH2)2CN, H, H, 117-18°; Br, o-FC6H4, H, H, H, 186-7°. Also prepared are the following IV: X, Ar, R, R1, m.p.; Cl, o-ClC6H4, H, H, 235-7°; Cl, o-FC6H4, H, H, 214-15°; Br, o-FC6H4, H, H, 224-5°; Cl, o-ClC6H4, Me, H, 168-71°; Cl, Ph, Me, H, 139-41°; H, o-ClC6H4, H, H, 187-9°; H, o-ClC6H4, Me, Me, -- (1); H, o-ClC6H4, Me, H, 177-80°; Br, Ph, H, H, 191-2°; Br, Ph, Me, Me, 166-72°; H, Ph, H, H, 147-8°; Me, Ph, H, H, 174-6°; Me, Ph, Me, Me, 71-3° (2); Cl, o-tolyl, H, H, 248-9°; Cl, o-tolyl, Me, Me, -- (3); H, o-FC6H4, H, H, 162-3°; Cl, Ph, Me, H, 144-5°; Cl, Ph, Me, allyl, 108.5-109°; Cl, Ph, allyl, allyl, --(4); H, Ph, H, Me, -- (5); Cl, o-FC6H4, H, Me, 185.6°; Cl, o-FC6H4, Me, Me, 124-5°; Cl, Ph, H, Me, 205-5.5°; Cl, Ph, Me, Me, 90-1°; Br, o-ClC6H4, Me, Me, 134-5°; H, Ph, Me, Me, 115-16°; (1) HCl salt m. 240-1° (Me2CO-ether), (2) 4-MeI salt m. 160-1° (decomposition) (MeOH-ether), (3) HCl salt m. 197-215° (MeOH-ether), (4) HCl salt m. 190-1° (CH2Cl2-ether), (5) MeI salt m. 190-1° (EtOH) and 4-MeCl salt m. 199-201° (MeOH-ether). Also prepared are the following III (Z = R = R1 = R2 = H, X = Cl, Ar = Ph): (R3 and m.p. given): Me, 220-1°; Ph, 269-70°; m-HOC6H4CH2, 151-3°; iso-Bu, 213-14°; CH2OMe, 166-7°. Also prepared are the following (m.p. given): III (R = R1 = R2 = R3 = X = H, Z = Cl, Ar = Ph),243.5-45°; II [R = H, R1 = AcNMe, Ar = Ph, X = R2 = Me], 193-4° (decomposition); 7-chloro-2-methylamino-5-phenyl-3H-1,4-benzodiazepine, 240-1°; 7-chloro-2-(N-methylacetamido)-5-phenyl-3H-1,4-benzodiazepine, 162°; 6-bromo-2-chloromethyl-4-(p-tolyl)quinazoline 3-oxide, 162-4°; 6-chloro-2-chloromethyl-4-(4-chloromethyl)quinazoline 3-oxide, 163-4°; 5-chloro-2-methyl-4H-3,1-benzoxazin-4-one, 143.5-46°; 6,2-Cl(AcNH)C6H3CO2H, --; 8-chloro-2-methyl-4H-3,1-benzoxazine-4-one, 131.5-2.5°; 2-methyl-7-chloro-4H-3,1-benzoxazin-4-one, --; 6-chloro-2-chloromethyl-4-(2-chlorophenyl)quinazoline 3-oxide, 140-3°; O-methylserine Et ester-HCl, --; o-(o-ClC6H4CO)C6H4NHCOCH2Br, 119-21°; o-(o-ClC6H4CO)C6H4NHCOCH2NH2, 162-4°. Also prepared were the

following 2-X1C6H4COC6H2(NRR1)R2X-2,3,5 VIII: R, R1, R2, X, X1, m.p.; H, ClCH2CO, H, Cl, H, 117-18°; H, H, Me, Me, H, 68-70°; H, Ac, Cl, Cl, H, 143-4°; H, H, Cl, Cl, H, 93-4°; H, MeCHBrCO, H, Cl, H, 114-15°; H, Ac, Cl, H, H, 129-31°; H, H, Cl, H, H, 56.8-58°; H, BrCH2CO, Cl, H, H, 129-30°; H, H, H, Cl, Cl, 88-9°; H, BrCH2CO, H, Cl, Cl, 136°; H, H2NCH2CO, H, Cl, Cl, 122-4°; H, H, H, Cl, Me, 50-5°; H, H, H, Cl, F, 94-5°; H, H, H, Br, F, 101-2°; H, BrCH2CO, H, Cl, F, 132.5-33°; H, H2NCH2CO, H, Cl, F, 115-15.5°; H, BrCH2CO, H, Br, F, 139-40°; H, H2NCH2CO, H, Br, F, 110-11°; Na, p-MeC6H4SO2, H, Cl, H, 298-9°; H, p-MeC6H4SO2, H, Cl, H, 120-1°; Me, p-MeC6H4SO2, H, Cl, H, 151-2°; H, Me, H, Cl, H, 95-6°; H, allyl, H, Cl, H, 76-7°; PhCH2, p-MeC6H4SO2, H, Cl, H, 116-18°; H, PhCH2, H, Cl, H, 86-7°; Me, BrCH2CO, H, Cl, H, 95-6°; allyl, BrCH2CO, H, Cl, H, 85-6°; PhCH2, BrCH2CO, H, Cl, H, 159-60°; H, Et, H, Cl, H, 56-7°; H, BrCH2CO, H, Cl, Me, 137-8°; H, p-MeC6H4SO2, H, Cl, Cl, 136-8°; Me, p-MeC6H4SO2, H, Cl, Cl, 145°, 153-5°; H, Me, H, Cl, Cl, 78-80°, 88-90°; H, p-MeC6H4SO2, H, Cl, F, 119-20°; Me, p-MeC6H4SO2, H, Cl, F, 151-2°; H, Me, H, Cl, F, 119-20°; H, H, Cl, Cl, H, 93-4°; H, H, Me, Cl, H, 88.5-90°; H, H, Me, H, H, 51-2°; H, BrCH2CO, Me, H, H, 117-18°; H, H, H, Me, F, 68.5-9.5°; H, H, H, Me, Cl, 106-7°; H, H, H, H, F, --; H, p-MeC6H4SO2, H, H, F, 129.5-30°; H, BrCH2CO, H, H, F, 117-18.5°; H, p-MeC6H4SO2, H, Br, F, 114-15°; Me, p-MeC6H4SO2, H, Br, F, 154-5°; H, Me, H, Br, F, 112-13°; H, H, H, Cl, Cl, 58-60°; H, ClCH2CO, H, Cl, Cl, 157-9°; H, BrCH2CO, H, Br, H, 117.5-18.5°; H, BrCH2CO, H, Me, H, 116-17°; H, BrCH2CO, H, F, H, 103-5°; Me, ClCH2CO, H, Cl, H, 123-4°; Me, ICH2CO, H, Cl, H, 95°; H, BrCH2CO, H, Br, F, 139-40°; H, H2NCH2CO, H, Br, F, 110-11°; H, ClCH2CO, H, Cl, F, 141-2°; H, BrCH2CO, H, H, H, 94-5°; H, BrCH2CO, Cl, Cl, H, 162-3°; (1) oxime m. 137-9° (C6H6-petr. ether). Also prepared were the following (m.p. given): p-[5,2-Br(H2N)C6H3CO]C6H4Me, 105-6° (α-oxime m. 204-5°; β-oxime m. 115-16°), p-[5,2-Br(ClCH2CONH)C6H3CO]C6H4Me α-oxime, 179-80°; p-[5,2-Cl(H2N)C6H3CO]C6H4Cl, 118-19° (α-oxime m. 151-4°); o-(p-ClC6H4CO)C6H4NH2, 98-9°; 6,2-Cl(AcNH)C6H3Bz, --; 6,2-Cl(H2N)C6H3Bz, 101-2.5°; 6,.2-Cl(BrCH2CONH)C6H3Bz, 97-8°; 4,2-Cl(H2N)C6H3Bz, 84-5°; 4,2-Me(H2N)C6H3Bz, 68-70°; p-[5,2-Cl(H2N)C6H3CO]C6H4F, 108-9°; p-[5,2-Cl(p-MeC6H4SO2NH)C6H3CO]C6H4F, 126-8°; p-[5,2-Cl(BrCH2CONH)C6H3CO] C6H4F, 97-8°; o-(o-ClC6H4CO)C6H4NO2, 76-9°; o-(o-ClC6H4CO)C6H4NH2, 58-60°; m-[5,2-Cl(H2N)C6H3CO]C6H4Me, 90-1°; p-[5,2-Cl(BrCH2CO NH)C6H3CO]C6H4Cl, 127-8°; p-[5,2-Cl(H2NCH2CONH)C6H3CO]C6H4Cl, 139-40°.

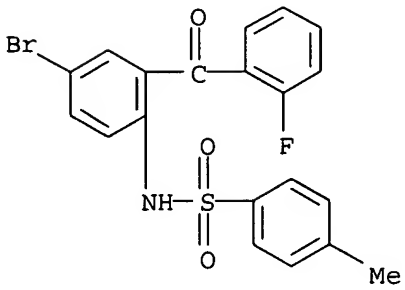
IT **747-99-9**, p-Toluenesulfonanilide, 4'-chloro-2'-(o-fluorobenzoyl)-
805-61-8, p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)-
909-51-3, p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)-
4142-76-1, Sodium, [N-(2-benzoyl-4-chlorophenyl)-p-toluenesulfonamido]- **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro- **5649-39-8**, p-Toluenesulfonanilide, 4'-chloro-2'-(o-chlorobenzoyl)-
(preparation of)

RN 747-99-9 CAPLUS

CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 805-61-8 CAPLUS
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



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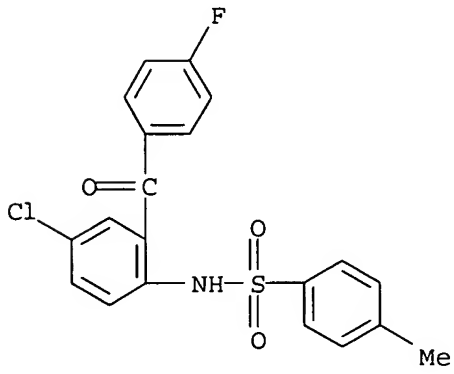

RN 4142-76-1 CAPLUS
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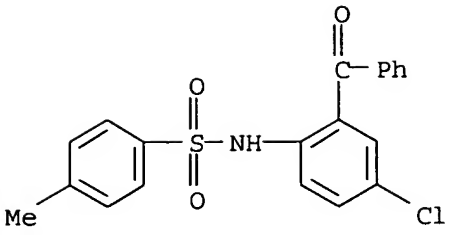
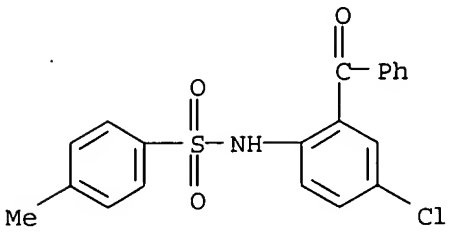
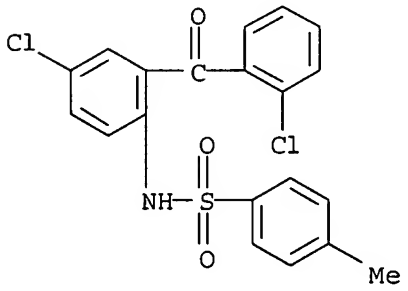


● Na

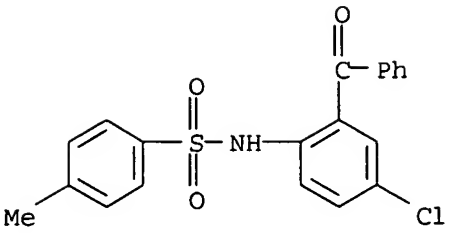
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 5649-39-8 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



IT **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro-, (sodium derivative)
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 60 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1964:68300 CAPLUS
DN 60:68300
OREF 60:12033h,12034a-h,12035a-e
TI 3H-1,4-Benzodiazepin-2(1H)-one derivatives
IN Reeder, Earl; Sternbach, Leo H.; Kell, Oscar; Steiger, Norbert; Stempel, Arthur; Fryer, Rodney I.; Saucy, Gabriel; Sach, George S.
PA F. Hoffmann-La Roche & Co., A.-G.
SO 16 pp.
DT Patent
LA Unavailable

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 1145626		19630321	DE	
			US	19591210
FR 1343476			FR	

AB 2-Amino-3,5-dimethylbenzophenone (I), m. 68-70°, was obtained by refluxing 2-benzamido-3,5-dimethylbenzophenone, glacial AcOH, concentrated H2SO4, and H2O 4 h. 2-Amino-3,5-dichlorobenzophenone (II), m. 93-4°, was prepared by keeping a HCl-saturated mixture of 2-acetamido-5-chlorobenzophenone, AcOH, and HNO3 at room temperature 1 h. and refluxing the acetyl derivative (m. 143-4°) in alc. concentrated HCl 3 h. 2-Amino-4'5,-dichlorobenzophenone (III), m. 118-19° (EtOH), was prepared by stirring p-chlorobenzoyl chloride with p-chloroaniline at 120° to start of HCl evolution, adding ZnCl2, stirring 2 h. at 230-42°, pouring into 0.5N HCl, suspending the powdered reaction product in 0.5N HCl, refluxing 1 h., dissolving the filtrate residue in AcOH and concentrated HCl, and refluxing 18 h. 2-Amino-5-bromo-4'-methylbenzophenone (IV), m. 105-6°, was prepared by adding anhydrous ZnCl2 to p-toluoyl chloride and p-bromoaniline at 200°, refluxing 2 h. at 230°, pouring into 0.5N HCl, and working up as above. 2-Chloro-5-trifluoromethylaniline was treated with NaNO2, concentrated H2SO4, NaCl, and ZnCl2 in H2O, the ZnCl2 double salt of the diazonium compound stirred 1 h. with NaCN, CuCN, and Na2CO3 in H2O at 20°, then 0.5 h. at 70°, and the obtained 2-chloro-5-trifluoromethylbenzonitrile (m. 39-40°) in benzene refluxed with PhMgBr in absolute Et2O 16 h. to give 2-chloro-5-trifluoromethylbenzophenone imine as the HCl salt (V), m. 248-51°. V was stirred with toluene-25% H2SO4 to give 2-chloro-5-trifluoromethylbenzophenone, m. 39-40°, which was heated with concentrated aqueous NH4OH in the presence of CuCl at 140° in a sealed tube to give 2-amino-5-trifluoromethylbenzophenone (VI), m. 81-2°. 2-Nitro-4-trifluoromethylaniline was converted over the diazonium ZnCl2-double salt into 2-nitro-4-trifluoromethylbenzonitrile, which was hydrogenated over Raney Ni in MeOH to the 2-amino analog, m. 151-2°, refluxed with 50% H2SO4 0.5 h. to give 4-trifluoromethylanthranilic acid (VIIa), m. 173-5°. VIIa refluxed 1 h. in Ac2O gave 2-methyl-7-trifluoromethyl-4H-3,1-benzoxazin-4-one, m. 71-2°, which was treated with PhMgBr, and the product refluxed 10 min. in methanolic 3N NaOH to give 2-amino-4-trifluoromethylbenzophenone

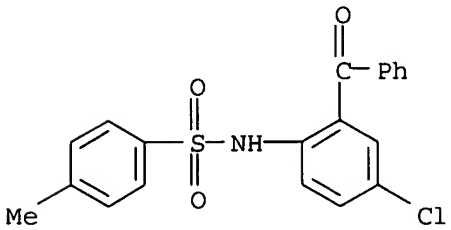
(VII), m. 55-6° (hexane). Anthranilic acid in Me2NCHO was cooled to 0°, treated dropwise with SOCl2 at <40°, the isolated 2-dimethylformamidinoanthranilic acid-HCl (VIII) (m. 215-17°) refluxed 2.5 h. with PCl5 in absolute C6H6, the mixture cooled to 20-5°, treated with anhydrous NH4Cl at <40°, refluxed 6 h., diluted with ice, treated dropwise with 40% NaOH at <50° to pH 11, and refluxed 5 h., and the oily product refluxed 20 h. with aqueous alc. 40% NaOH to give 2-aminobenzophenone (IX), m. 103-5°. IX in methanolic NaSCN was treated dropwise with Br in NaBr-saturated MeOH at 0° and the mixture stirred 0.5 h. to give 2-amino-5-thiocyanatobenzophenone (X), m. 83-4°, which was heated in EtOH on a steam bath with alternate addition of Na dithionite and 10% NaOH, the temperature increased to 80°, and the mixture treated with Me2SO4 at 40°, and stirred 1 h. to give 2-amino-5-(methylthio)benzophenone (XI). 2-Amino-5-(ethylthio)benzophenone (XII), was similarly prepared from X with EtBr instead of Me2SO4. Also prepared were 2-amino-5-(butylthio)benzophenone and 2-amino-4-(2-hydroxyethylthio)benzophenone (XIII). Heating p-methylsulfonylaniline-HCl and BzCl at 120°, adding anhydrous ZnCl2 at 170°, heating the mixture 2.5 h. at 210-20°, adding aqueous HCl at 160°, refluxing 5 min., and refluxing the isolated product 19 h. in concentrated HCl-glacial AcOH gave 2-amino-5-methylsulfonylbenzophenone, m. 156-61°. 2-Amino-5-chlorobenzophenone (XIV) was heated with S2Cl2 2 h. at 60-5° to give 4-benzoyl-6-chloro-2,3,1-benzothiazathiolium chloride, which was treated with aqueous alc. 40% NaOH and Na dithionite, and then with Me2SO4 to give 2-amino-5-chloro-3-(methylthio)benzophenone (XV), also obtained from VIII, with S2Cl2, AlCl3, and glacial AcOH at 60-80° followed by treating the dried thiazathiolium compound as above. 2-Amino-4'-chlorobenzophenone (XVI), m. 98-9°, was obtained from VIII with PCl5. The Na salt (m. 298-9°) of 2-(p-toluenesulfonamido)-5-chlorobenzophenone (m. 120-1°) was methylated with Me2SO4 in toluene to give 2-(N-methyl-p-toluenesulfonamido)-5-chlorobenzophenone (m. 151-2°), which was added to 70% H2SO4 at 105°, and the mixture stirred 8 min. at 145° to give 2-methylamino-5-chlorobenzophenone (XVII), m. 93-4°. 2-Amino-4-chlorobenzophenone (XVIII), m. 84-5° (hexane), was prepared from 2-methyl-7-chloro-4H-3,1-benzoxazin-4-one and PhMgBr in Et2O. 2-Amino-4'-trifluoromethylbenzophenone (XIX), m. 99-100° (hexane), was prepared from p-F3CC6H4MgBr in absolute Et2O and 2-methyl-4H-3,1benzoxazin-4-one (XX) in CH2Cl2. Similarly prepared were 2-amino-3'-trifluoromethylbenzophenone (XXI), m. 97-9°, from m-F3CC6H4MgBr, and 2-amino-6-chlorobenzophenone (XXII), m. 101-2°, from 5-chloro-2-methyl-4H-3,1-benzoxazin-4-one (m. 153.5-56°) and PhMgBr. 2-Amino-2',5-dichlorobenzophenone (XXIII), m. 88-9°, was prepared from p-chloroaniline, o-chlorobenzoyl chloride, and ZnCl2. Similarly was prepared 2-amino-5-chloro-2'-methylbenzophenone (XXIV), m. 50-5°. 2-Amino-5-methoxybenzophenone (XXV), m. 50-2°, was prepared from 2-methyl-6-methoxy-4H-3,1-benzoxazin-4-one and PhMgBr. 2-Amino-5-hydroxybenzophenone (XXVI), m. 127-8°, was prepared from XXV and 48% HBr. Also prepared were 2-amino-5-chloro-2'-fluorobenzophenone (XXVII), m. 94-5° (MeOH), 2-amino-5-chloro-3'-fluorobenzophenone (XXVIII), m. 90-1° (MeOH), and 2-amino-5-bromo-3'-fluorobenzophenone (XXIX), m. 101-2° (MeOH). XXX (R = R1 = R2 = H, R3 = 7-Cl) (XXXI) (2.9 g.), m. 216-17°, was prepared by distilling 25 mL. C5H5N from a mixture of 23.2 g. XIV, 15 g. glycine, 250 mL. C5H5N, and 25 g. anhydrous HCl, refluxing the mixture 24 h., distilling 50 mL. C5H5N, adding 25 g. HCl, distilling 50 mL. of C5H5N, and refluxing the mixture 24 h. XXXI (14 g.) was also obtained by refluxing 23.15 g. XIV, 20.8 g. Et glycinate-HCl (XXXII), and 50 mL. C5H5N 4 h. The 9-nitro derivative, m. 234-5° (CH2Cl2), of XXXI was prepared by treating XXXI 1 h. with concentrated H2SO4-HNO3

at <0°. XXX (R = R1 = R2 = H, R3 = 7-Me)(16.5g.), m. 209-10° (Me2CO), was prepared from 22 g. 2-amino-5-methylbenzophenone, 21 g. XXXII, and 120 mL. I. Also prepared were the following XXX (R, R1, R2, R3, and m.p. given): H, H, H, 7,9-Me2, 210-11°; H, H, H, 7,9-Cl2, 207-8°; H, H, 4-Cl, 7-Cl, 247-8°; H, H, 4-Me, 7-Br, 239-40°; H, Me, H, 7-Cl, 217-19°; H, Me, H, 7-NO2, 219-21°; H, H, H, H, 182-3°; H, H, H, 7,9-(NO2)2, 240°; H, H, H, 7-NO2, 224-5°; H, H, H, 7-NH2, 236-9°; H, H, H, 7-NHAc, 278-9°; H, H, H, 7,8-Me2, 255-6°; H, H, H, 7-Br, 220-1°; H, H, H, 7-F3C, 198-9°; H, H, H, 8-F3C, 184-8°; H, H, H, 7-MeS, 216-18° (Me2CO); H, H, H, 7-MeS, - (HCl salt m. 273°); H, H, H, 7-BuS, - (HCl salt m. 247-9°); H, H, H, 7-HOCH2CH2S, - (HCl salt m. 252-3° (decomposition)); H, H, H, 7-MeSO2, 256-8°; H, H, H, 7,9-Cl(MeS), 189-91°; H, H, 4-Cl, H, 262-3°; H, H, 4-Cl, 7-NO2, 253-4°; Me, H, H, 7-Cl, 123-4°; Me, H, 2-Cl, 7-Cl, 135-8°; Me, H, 2-Me, 7-Cl, 137-9°; Me, H, H, H, 153.5-5.5°; Me, H, H, 7-NO2, 156-7°; PhCH2, H, H, 7-Cl, 174-5°; Et, H, H, 7-Cl, 127-8°; Me, H, 2-MeO, 7-Cl, 161-2°; Me, H, 2-F, 7-Cl, -; Me, H, 2-F, 7-Br, 132-5°; H, H, Ph, 8-Cl, 214-15°; H, H, 4-F3C, H, 219-20°; H, H, 3-F3C, H, 204-5°; H, H, H, 6-Cl, 243.5-45°; H, H, H, 9-Cl, 174.5-6.5°; H, H, 2-Cl, 7-Cl, - (HCl salt m. 199-201°); H, H, 2-Me, 7-Cl, 180-1°; H, H, 2-Cl, 7,8-Me2, 259-60°; H, H, H, 8-MeO, 186-8°; H, H, H, 7-MeO, 217-18°; H, H, H, 7-OH, 282-4°; H, Ph, H, 7-Cl, 269-70°; H, 4-HOC6H4CH2, H, 7-Cl, 151-3°; H, MeSCH2CH2, H, 7-Cl, 179-80°; H, H, 2-F, 7-Cl, 205-6°; H, H, 3-F, 7-Cl, 200-1°; H, H, 2-F, 7-Cl, 187-8°; H, H, H, 8-NO2, 252° (decomposition); H, H, H, 6-NO2, 297-9° (decomposition); H, H, H, 7-MeSO, 254° (decomposition); H, H, 2-F3C, 7-F3C, 226-7°; H, H, H, 7,8-Br(MeO), 260.5-1.5°; H, H, 2-MeO, 7-Cl, 205.5-6.5°; H, H, 3-MeO, 7-Cl, 219-21°; H, H, 4-MeO, 7-Cl, 212-14°; H, H, H, 9-NO2, 144-5°; H, H, 2-F3C, 7-NO2, 233-4°. XXX show sedative, muscle-relaxing, or anticonvulsive properties.

IT **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro- (preparation of)

RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 61 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1963:469206 CAPLUS

DN 59:69206

OREF 59:12827g-h,12828a-e

TI 2-Oxo-1,2-dihydro-1,4-benzodiazepines

IN Reeder, Earl; Sternbach, Leo H.; Steiger, Norbert; Keller, Oscar; Stempel, Arthur

PA F. Hoffmann-La Roche & Co., A.-G.
SO 14 pp.
DT Patent
LA Unavailable

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 1136709		19620920	DE	
			US	19591210
FR 1343475			FR	
GB 972961			GB	
GB 972962			GB	
GB 972963			GB	
GB 972964			GB	
GB 972965			GB	
GB 972966			GB	
GB 972967			GB	
GB 972968			GB	
US 3051701		1962	US	

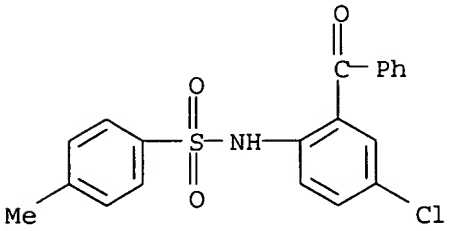
AB Compds. of the general formula I have sedative, anticonvulsant, and muscle relaxant properties. They were prepared by cyclizing the appropriate 2-(α-aminoacylamino)benzophenones (II), the II being obtained from the corresponding Cl compds., which were prepared by heating 2-aminobenzophenones with α-halocarboxylic acid halides. E.g., refluxing 1.5 hrs. a solution of 231.5 g. 2-amino-5-chlorobenzophenone and 231.5 g. p-toluenesulfonyl chloride in 1 l. pyridine, distilling 500 ml. pyridine, pouring the residue into H2O, filtering off the solid, dissolving it in boiling benzene, adding carefully 150 ml. 40% NaOH, refluxing 1 hr. with stirring, cooling to 25°, filtering, washing with hot benzene and with H2O, drying at 80°, and recrystg. from HCONMe2-CHCl3 yielded the Na salt of 2-(p-toluenesulfonamido)-5-chlorobenzophenone (III), m. 298-9°. Refluxing a suspension of 31.5 g. III in 300 ml. dry MeCN with 13.3 ml. allyl bromide, filtering after 1.5 hrs., concentrating in vacuo, dissolving in 40 ml. AcOH, adding 300 ml. 70% H2SO4 at 105°, heating 8 min. at 145° with stirring, pouring into 2 l. crushed ice, diluting with 1 l. H2O, dissolving the rubbery solid in 1.5 l. Et2O, washing the organic layer with N NaOH and with H2O, drying, concentrating in vacuo, and crystallizing the residue from 75 ml. MeOH yielded 2-allylamino-5-chlorobenzophenone, m. 76-7°. Treating 3.07 g. of the latter in 100 ml. Et2O with 1.1 ml. CH2BrCOBr, washing with 100 ml. H2O and with 0.5 and 3 + 0.3 ml. CH2BrCOBr, drying (Na2SO4) and concentrating yielded 2-(N-allyl-2-bromoacetamido)-5-chlorobenzophenone (IV), m. 85-6° (hexane). A solution of 3.2 g. IV in 25 ml. MeOH and 30 ml. 21% methanolic NH3 was kept overnight at 25% then concentrated in vacuo at 20-5°, 100 ml. Et2O added, NH4Br filtered off, and the solution decolorized, concentrated in vacuo, and crystallized (1:9 Et2O-petr. ether) to yield 57% 1-allyl-7-chloro derivative of I, m. 105-6° (hexane). The following I were prepared (substituents, % yield, and m.p. given): 7-Cl, 33, 214-15°; 7,9-Cl(O2N), -, 234-5° (CH2Cl2); 3,7-MeCl, -, 220-1° (C6H6-petr. ether); 7-NO2, 11.7, -; 8-NO2, -, 252° (decomposition); 3,7-Me(O2N), 15, 219-21°; 1,7-MeCl, 46.5, 125-6°; 1-benzyl-7-chloro, 60.2, 173-4°; 7-CF3, -, 205-6° (C6H6-hexane); 2'-CF3, -, 187-8° (ether-hexane); 2',5-(CF3)2, 43, 226-7° (C6H6-hexane); 6-Cl, -, 244-5° (AcOEt); 9-Cl, 20, 174-5.5° (C6H6-hexane); 2',7-Cl2, 75, 199-201° (MeOH); 8-OMe, 47, 190-1.5° (Me2CO-hexane); 7,8-Br(MeO), 42, 260-1.5° (C6H6-hexane); 7,2'-Cl(MeO), 45,

205.5-6.5°; 7,2-Cl(HO), 36, 286-8° (MeCN); 7,3'-Cl(MeO), 54, 219-21° (Me2CO-hexane); 7,4'-Cl(MeO), 52, 212-14°; 9-NO2, 35, 144-5° (EtOH); 2',7-FCl, 72, 205-6° (Me2CO-hexane); 2',7-FBr, 84, 186-7° (Me2CO); 7-Me, -, 209-10°, 7,9-Me2, -, 210-11°; 7,9-Cl2, -, 207-8°; 4',7-Cl2, -, 247-8°; 4',7-MeBr, 239-40°; 7,8-Me2, -, 255-6°; 7-Br, -, 220-1°; 7-SMe, -, 216-18°; 7-SEt, -, 273° (hydrochloride); 7-SBu, -, 247-9° (hydrochloride); 7-SC2H4OH, -, 252-3° (decomposition) (hydrochloride); 7-MeSO2, -, 256-8°; 7,9-Cl(MeS), -, 189-91°; 1,7-Me(O2N), -, 156-7°; 5'-Cl, -, 262-3°; 7-MeSO, -, 254 (decomposition); 8-Cl, -, 214-15°; 8-CF3, -, 184-6°; 4'-CF3, -, 219-20°; 3'-CF3, -, 204-5°; 1,2',7-MeCl2, -, 135-8°; 2',7-MeCl, -, 180-1°; 1,2',7-Me2Cl, -, 137-9°; 1-Me, -, 153.5-5.5°; 2',7,8-ClMe2, -, 259-60°; 7,1-Cl(CH2OH), -, 201-2°; 1,7-EtCl, -, 127-8°; 7-OMe, -, 217-18°; 7-OH, -, 282-4°; 1,2',7-Me(MeO)Cl, -, 161-2°; 3,7-PhCl, -, 269-70°; 3',7-FCl, -, 200-1°; 1,2',7-MeFCl, -, oil; 1,2',7-MeFBr, -, 132-2.5°; 7,9-(O2N)2, -, 240°; 7-NH2, -, 236-9°; 7-NHAc, -, 278-9°; 4',7-Cl(O2N), -, 253-4°.

IT **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro- (preparation of)

RN 4873-59-0 CAPLUS

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 62 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1963:20757 CAPLUS

DN 58:20757

OREF 58:3436c-d

TI Quinazolines and 1,4-benzodiazepines. VI. Halo-, methyl-, and methoxy-substituted 1,3-dihydro-5-phenyl-2H-1,4-benzodiazepin-2-ones

AU Sternbach, L. H.; Fryer, R. Ian; Metlesics, W.; Reeder, E.; Sach, G.; Saucy, G.; Stempel, A.

CS Hoffmann-La Roche Inc., Nutley, NJ

SO Journal of Organic Chemistry (1962), 27, 3788-96
CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA Unavailable

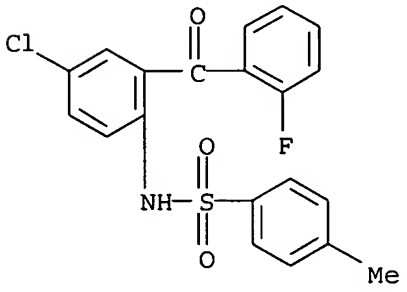
OS CASREACT 58:20757

AB Two new methods for the synthesis of 1,4-benzodiazepin-2-ones were reported. A number of new 1,3-dihydro-5-phenyl-2H-1,4-benzodiazepin-2-ones (I), and intermediates leading to these compds. was described.

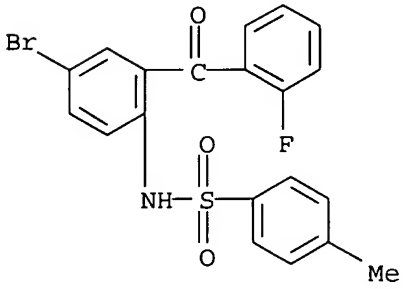
IT **747-99-9**, p-Toluenesulfonanilide, 4'-chloro-2'-(o-fluorobenzoyl)-
805-61-8, p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)-
859-04-1, p-Toluenesulfonanilide, 4'-chloro-2'-(m-fluorobenzoyl)-
909-51-3, p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)-
4873-59-0, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro-

5649-39-8, p-Toluenesulfonanilide, 4'-chloro-2'-(o-chlorobenzoyl)-
94579-32-5, p-Toluenesulfonanilide, 2'-benzoyl-4'-bromo-
(preparation of)

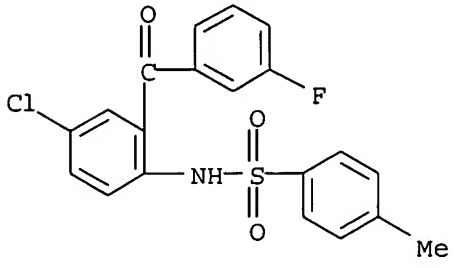
RN 747-99-9 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



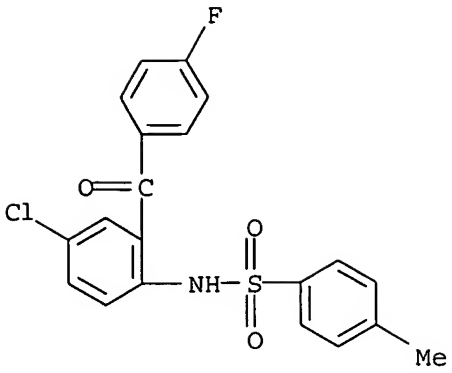
RN 805-61-8 CAPLUS
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



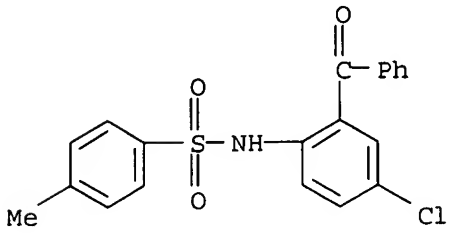
RN 859-04-1 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(3-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



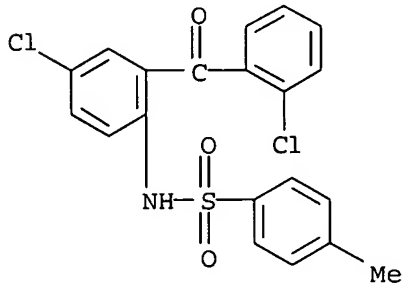
RN 909-51-3 CAPLUS
CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



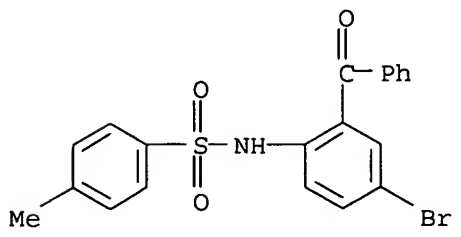
RN 4873-59-0 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



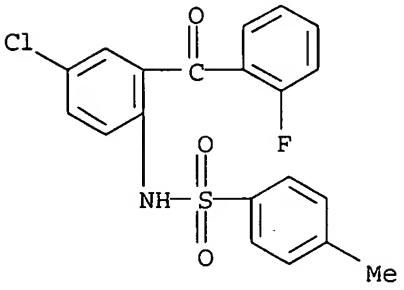
RN 5649-39-8 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 94579-32-5 CAPLUS
CN Benzenesulfonamide, N-(2-benzoyl-4-bromophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 63 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1963:20756 CAPLUS
DN 58:20756
OREF 58:3436b-c
TI Quinazolines and 1,4-benzodiazepines. V. o-Aminobenzophenones
AU Sternbach, L. H.; Fryer, R. Ian; Metlesics, W.; Sach, G.; Stempel, A.
CS Hoffmann-La Roche Inc., Nutley, NJ
SO Journal of Organic Chemistry (1962), 27, 3781-8
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA Unavailable
OS CASREACT 58:20756
AB cf. CA 57, 14296c. A series of substituted o-aminobenzophenones was prepared Some of these compds. were converted via their tosyl derivs. into N-mono-substituted o-aminobenzophenones. These primary and secondary amines were needed as intermediates for the synthesis of 1,3-dihydro-5-phenyl-2H-1,4-benzodiazepin-2-ones.
IT **747-99-9**, p-Toluenesulfonanilide, 4'-chloro-2'-(o-fluorobenzoyl)- **805-61-8**, p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- **859-04-1**, p-Toluenesulfonanilide, 4'-chloro-2'-(m-fluorobenzoyl)- **909-51-3**, p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- **4142-76-1**, Sodium, [N-(2-benzoyl-4-chlorophenyl)-p-toluenesulfonamido]- **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro- **5649-39-8**, p-Toluenesulfonanilide, 4'-chloro-2'-(o-chlorobenzoyl)- **94579-32-5**, p-Toluenesulfonanilide, 2'-benzoyl-4'-bromo-
(preparation of)
RN 747-99-9 CAPLUS
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



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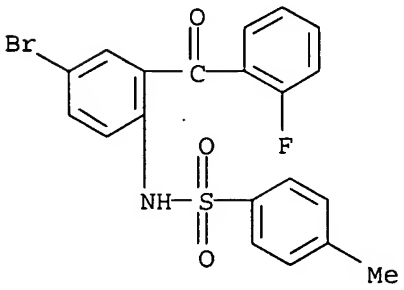

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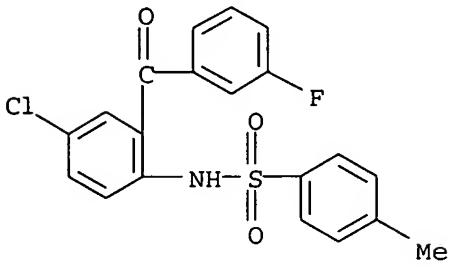

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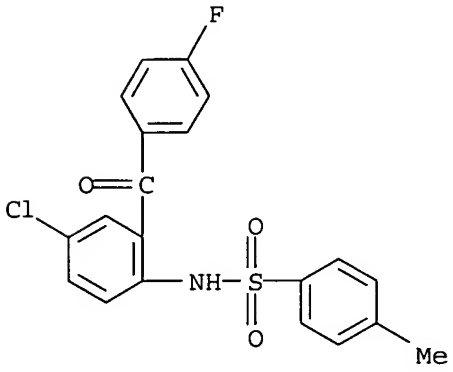

RN 4142-76-1 CAPLUS
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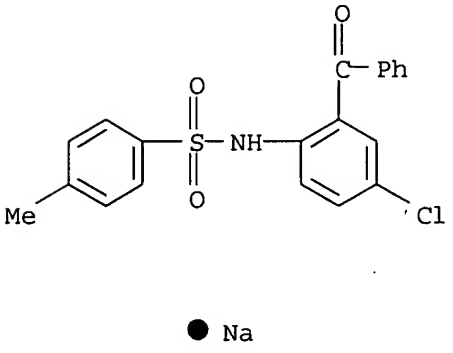

RN 4873-59-0 CAPLUS
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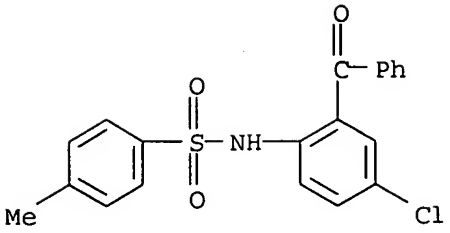

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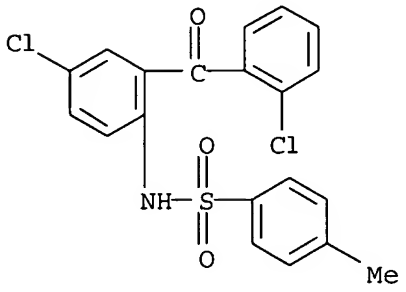

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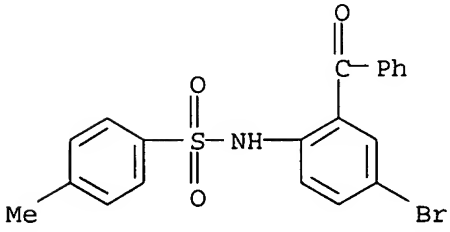

IT **4873-59-0**, p-Toluenesulfonanilide, 2'-benzoyl-4'-chloro- (sodium derivative)
RN 4873-59-0 CAPLUS
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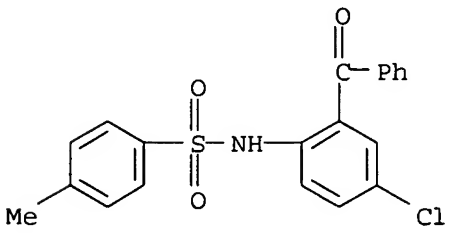


L4 ANSWER 64 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1962:404021 CAPLUS
DN 57:4021
OREF 57:830a-i,831a-h
TI 1,3-Dihydro-2H-1,4-benzodiazepin-2-ones and their 4-oxides
AU Bell, Stanley C.; Sulkowski, Theodore S.; Gochman, Carl; Childress, Scott J.
CS Wyeth Labs., Inc., Radnor, PA, USA
SO Journal of Organic Chemistry (1962), 27, 562-6
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA Unavailable
AB Alc. NaOH converted 6-chloro-2-chloromethyl-4-phenylquinazoline 3-oxide (I) into 7-chloro-5-phenyl-1,3-dihydro-2H-1,4-benzo-diazepin-2-one 4-oxide (II). 7-Chloro-5-phenyl-1,3-dihy-dro-2H-1,4-benzodtazepin-2-one (III) was prepared by reduction of II and by several alternate routes. A number of analogs were made. The following methods were employed. Method A. I (1.5 g.) added to 2 g. NaOH in 30 ml. 85% alc., the mixture stirred 0.5 hr., diluted with 30 ml. H2O, and acidified gave 1 g.II, m. 238-9°. Method A also afforded the product prepared from 2-(α-bromoethyl)-6-chloro-4-phenylquinazoline 3-oxide. Alc. was used as the solvent. In addition a 22% yield of 7-chloro-2-ethoxy-3-methyl-5-phenyl-3H- 1,4-benzodiazepine 4-oxide, m. 156-7°, was isolated. Method B. III (1 g.) and 1 ml. 40% AcO2H in 25 ml. AcOH kept 24 hrs. at room temperature, diluted with 200 ml. H2O, neutralized, and crystallized gave 0.5 g. II. Method C. 2-Amino-5-chlorobenzophenone (23 g.) in 100 ml. CHCl3 treated at room temperature with 8.5 ml. ClCH2COCl in 50 ml. CHCl3, after 1 hr. the solvent removed, and the residue crystallized gave 24 g. 2-chloroacetamido-5-chlorobenzophenone (IV), m. 119-21°. IV (5 g.) added to 125 ml. alc. saturated with NH3 and containing a trace of NaI, the mixture stirred 2 days, evaporated, the solid extracted with dilute HCl, and neutralized gave 1.2 g. III, m. 214-16°; MeI salt m. 250-1°. III.MeI (3 g.) in 300 ml. H2O treated dropwise with NaBH4 in H2O and the precipitate recrystd. gave 1.8 g. 7-chloro-4-methyl-5-phenyl-1,3,4,5-tetrahydro-2H- 1,4-benzo-diazepin-2-one, m. 206-8°. Method D. The compound (2.5 g.) in 120 ml. 80% alc. and 2 ml. 6N HCl shaken with H in the presence of 1 g. 5% Pd-C, the filtrate evaporated, MeCN added, the salt separated, and treated with Na2CO3 gave 1.3 g. 5-phenyl-1,3-dihydro-2H-1,4-benzodiazepin-2-one (V), m. 170-80° (C6H6). V was isolated by catalytic reduction of II. When a third mole of H was added, saturation of the double bond occurred to give 50% 5-phenyl-1,3,4,5-tetrahydro-2H-1,4-benzodiazepin-2-one, m. 145-6°. Method E. α-Carbo-benzoxamidophenylacetyl chloride (from 10 g. α-carbo-benzoxamidophenylacetic acid and 7.9 g. PCl5 in 200 ml. Et2O) left overnight with 8 g. 2-amino-5-chlorobenzophe-none gave 9.8 g. product, m. 137°. This product (8 g.) in 25 ml. AcOH containing 30% HBr left 1 hr., the product dissolved in 100 ml. 75% aqueous MeOH, neutralized, and poured on ice gave a solid, presumably 2-(α-aminophenylacetamido)-5-chlorobenzophenone, which was refluxed in PhMe over-night to give 90% 7-chloro-3,5-diphenyl-1,3-dihydro-2H-1,4-benzodiazepin-2-one, m. 270° (decomposition) (PhMe). 2-(α-Carbobenzoxamidoacetamido)-5-chlorobenzophenone (VI), m. 115-16° (alc.), was prepared as in the above example and used in method E to give III. Method F. 1-Aminocyclo-pentanecarboxylic acid (12.9 g.), 40 g. PCl5, and 300 ml. CCl4 shaken 18 hrs., the solid filtered off, washed, and dried gave 18.3 g. acid chloride-HCl, m. above 300°. This product in 20 g. 2-amino-5-chlorobenzophenone in 400

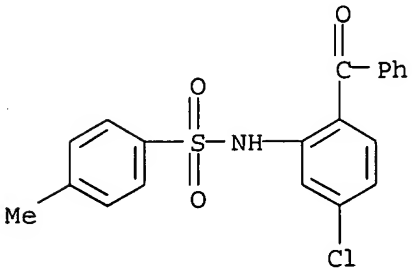
ml. CCl_4 shaken overnight, the mixture evaporated, and the residue extracted with hot PhMe gave 13.5 g. 7-chloro-5-phenylspiro(3H-1,4-benzodiazepin-3,1'-cyclopentan)-2(1H)-one, m. 238-40° (alc.). When 2-amino-5-chlorobenzophenone and glycyl chloride-HCl were used in method F, a 15% yield of 3-amino-6-chloro-4-phenyl-2(1H)-quinoline (VII) was obtained, m. 239-41° (alc.). VII (6 g.), 30 ml. 95% alc., and 6 ml. H_2SO_4 heated on the steam bath to give a clear solution, cooled to 5°, 4 g. $NaNO_2$ in 10 ml. H_2O added, the mixture stirred 20 min., 1 g. Cu powder added, the mixture heated to reflux, poured onto ice, made basic, and the solid crystallized gave 2.1 g. 6-chloro-4-phenyl-2(1H)-quinoline (VIII), m. 262°(alc.). Di-Et malonate (10 g.) and 11.6 g. 2-amino-5-chlorobenzo-phenone heated 1 hr. at 150-60°, cooled, triturated with hexane, and the product crystallized gave 9.5 g. 3-carbethoxy-6-chlorn-4-phenyl-2(1H)-quinolone (IX), m. 235° (alc.). IX (8 g.), 150 ml. 20% NaOH, and 30 ml. alc. refluxed 1 hr., cooled, and acidified gave 7 g. 3-carboxy-5-chloro-4-phenyl-2(1H)-quinolone (X), m. 305°. X (1.5 g.) refluxed 1 hr. in 50 ml. Dowtherm, diluted, and chilled gave 1.1 g. VIII. Method G. II (50.8 g.) and 8.1 g. NaOH in 1.5 l. H_2O and 300 ml. alc. treated with 17.5 ml. Me_2SO_4 gave after 1 hr. 36.5 g. 7-chloro-1-methyl-5-phenyl-1,3-dihydro-2H-1,4-benzodiazepin-2-one 4-oxide (XI), m. 179-80° (alc.). Method H. PCl_3 (10 ml.) in 10 ml. C_6H_6 slowly added to 12.5 g. XI in 50 ml. $CHCl_3$ and 150 ml. C_6H_6, the mixture refluxed 20 min., treated with 3 ml. alc. and 10 ml. C_6H_6, the precipitate separated, stirred in 300 ml. H_2O containing 3 ml. HCl, and the product recrystd. gave 8.7 g. 7-chloro-1-methyl-5-phenyl-1,3-dihydro2H-1,4-benzodiazepin-2-one, m. 122-4°(cyclohexane). II (2 g.) in 15 ml. alc. and 30 ml. 5N NaOH warmed 10 min., the Na salt, m. 220-2°, collected, dissolved in H_2O, acidified, and recrystd. gave 1 g. N-(2-amino-5-chloro-α-phenylbenzylidene)glycine N-oxide, m. 150-1° (decomposition) (MeCN). N-(2-Methylamino-5-chloro-α-phenylbenzylidene)glycine Noxide was similarly prepared, m. 150-1° (decomposition). The 2 preceding compds. could be recyclized by heating 5 min. in 3N aqueous alc. HCl. III (2 g.) in 15 ml. alc. and 30 ml. 5N NaOH refluxed 10 min. and the 1.5 g. Na salt (XII) of N-(2amino-5-chloro-α-phenylbenzylidene)glycine acidified gave 2-amino-5-chlorobenzophenone and glycine. XII (3 g.) treated with 0.5 g. $NaBH_4$ in 15 ml. H_2O and the mixture after 15 min. cautiously acidified gave 2.5 g. N-(2-amino-5chloro-α-phenylbenzyl)glycine, m. 192-4°. 2-Aminoacetophenone oxime (4.6 g.) in 50 ml. AcOH treated overnight with 5 ml. $ClCH_2COCl$ gave 4.6 g. 2-chloromethyl-4-methylquinazoline 3-oxide, m. 169-70°. p-Chlorobenzoyl chloride (100 g.) added to 45 g. p-bromoaniline, the mixture heated to 180°, 35 g. fused $ZnCl_2$ added in 15 min., the mixture heated a further 1.5 hrs., cooled, mixed into 300 ml. alc., heated 4 days in a mixture of 250 ml. H_2SO_4, 250 ml. H_2O, and 300 ml. alc., the unhydrolyzed material removed, and the filtrate diluted with H_2O gave 14 g. 2-amino-5-bromo-4'-chlorobenzophenone, m. 122-4°; oxime (XIII) m. 175-7°(C6H6). XIII (12 g.) in 100 ml. AcOH treated with 5.8 ml. $ClCH_2COCl$ and HCl passed in gave 6.6 g. 6-bromo-2-chloromethyl-4-(pchlorophenyl)quinazoline 3-oxide, m. 180-1°. The following intermediates were prepared as described in method C for 2-chloroacetamido-5-chlorobenzophenone: 2-chloroacetamido-5-chloro-4'-methoxybenzophenone, m. 138-40°(alc.); 2-chloroacetamido-5-chlorophenyl cyclohexyl ketone, m. 116-18° (alc.); 2-(α-bromopropionamido)-5-chlorobenzophenone, m. 113-14° (MeOH). 6-Chloro-2-chloromethyl4-phenylquinazoline (3 g.) slowly added to 2 g. NaOH in 45 ml. alc., the mixture stirred 1 hr., heated 0.5 hr. at 60°, cooled, kept overnight at room temperature, treated with H_2O, and crystallized gave 1.6 g. 6-chloro-2-ethoxymethyl-4-phenylquinazoline, m.

94-6° (MeCN). 2-Benzamido-4'-chloroacetanilide (2 g.) and 50 ml. polyphosphoric acid heated 1 hr. gave 0.9 g. solid, identified as hippuric acid, but no III was obtained. 2-Amino-5-chlorobenzophenone (23 g.) in 50 ml. C5H5N treated with 21 g. p-MeC6H4SO2Cl gave 36 g. 2'-benzoyl-5'-chloro-p-toluenesulfonanilide (XIV), m. 11516°. XIV in dilute NaOH treated with Me2SO4 gave quant. N-methyl-2'-benzoyl-5'-chloro-p-toluenesulfonanilide (XV), m. 150-2°. Crude XV (35 g.) in 100 ml. concentrated H2SO4 warmed 0.5 hr. on the steam bath, the solution cooled, poured into H2O, made basic, and crystallized gave 19 g. 2-methylamino5-chlorobenzophenone, m. 94-6°. II (0.5 g.) refluxed 10 min. with 5 ml. SOCl2 gave 0.3 g. III. The following 1,3-dihydro-2H-1,4-benzodiazepin-2-ones were prepared in addition to the above by the described methods (substituents at 1, 3, 4, 5, and 7 positions, m.p. of product, method, recrystn. solvent, and % yield given): H, H2, -, Me, H, 285-6°, D, alc., 45; H, H2, O, Me, H, 235-6°, A, H2O, 59; H, H2, -, C6H11, Cl, 200-2°, C, MeCN, 25; H, H2, O, Ph, H, 250°, A, repptd. from alkali, 84; H, H2, -, Ph, Me, 204-6°, D, PhMe, 77; H, H2, O, Ph, Me, 234-6°, A, EtOAc, 90; H, H2, -, Ph, Cl, 214-16°, C (D, E, F, H), alc., 27 (C); H, H (Me), -, Ph, Cl, 220-1°, C, alc., 30; H, H2, O, 2-C4H3S, Cl, 255-6°, A, alc., 55; H, H2, -, p-MeOC6H4, Cl, 213-14°, C, alc., 20; H, H2, O, p-ClC6H4, Br, 260-1° (decomposition), A, alc., 67; Et, H2, -, Ph, Cl, 129-31°, H, MeOH, 63; Et, H2, O, Ph, Cl, 211-12°, G, alc., 22; Me2NCH2CH2, H2, O, Ph, Cl, 211-12°, G, alc.-Et2O, 10; H, H(Ph), -, Me, Cl, 245-7°, F, alc., 50; H, Me2, -, Ph, Cl, 209-11°, F, alc., 8.

IT **97296-01-0**, p-Toluenesulfonanilide, 2'-benzoyl-5'-chloro-
(preparation of)

RN 97296-01-0 CAPLUS

CN p-Toluenesulfonanilide, 2'-benzoyl-5'-chloro- (7CI) (CA INDEX NAME)



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L3 67 SEARCH L1 FULL

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SCAN ---- TI, IT (random display, no answer numbers;
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          e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB

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IBIB ---- BIB, indented with text labels
ISTD ---- STD, indented with text labels

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HITIND -- IT
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HITSTR -- HIT RN, its CA index name and its structure diagram
FHITSTR - First HIT RN, its CA index name and its structure diagram
OCC ----- Number of occurrence of hit term and fie ld in which it occurs

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FHITSTR - First HIT RN, its CA index name and its structure diagram
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Numbers (AN) CA References.

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L5 ANSWER 1 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA65:18558e CAOLD
TI trichloroacetoacetates - (I) synthesis and reactions of ethyl and β,β,β-trifluoroethyl trichloroacetoacetates
AU Wald, David K.; Joullie, M. M.
IT 133-08-4 492-27-3 918-00-3 3702-98-5 **4873-59-0**
5044-52-0 6590-65-4 7597-56-0 10174-60-4 10174-61-5 10174-62-6
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L5 ANSWER 2 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA64:19498a CAOLD
TI 2-(N-substituted amino)halobenzophenones
AU Reeder, Earl; Sternbach, L. H.
DT Patent

PATENT NO.	KIND	DATE
US 3239564		1966

IT 439-14-5 723-99-9 728-09-6 **747-99-9** 784-38-3
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L5 ANSWER 3 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA64:3425g CAOLD
TI 2-methyl (and benzyl)amino-5-chlorobenzophenones
AU Reeder, Earl; Sternbach, L. H.
DT Patent
TI 2-methyl(and benzyl)amino-5-chlorobenzophenones
PA Hoffmann-La Roche, F., & Co. A.-G.
DT Patent

PATENT NO.	KIND	DATE
GB 972975		

IT 1022-13-5 1843-10-3 1843-11-4 4873-37-4 4873-58-9
4873-59-0 4890-54-4 5543-91-9 5543-92-0 5543-93-1
5543-94-2 5543-95-3

L5 ANSWER 4 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA63:17978e CAOLD
TI 2-alkenylamino-5-halobenzophenones
AU Reeder, Earl; Sternbach, L. H.
PA Hoffmann-La Roche, F., & Co. A.-G.
DT Patent

PATENT NO.	KIND	DATE
GB 972971		

IT **4142-76-1**

L5 ANSWER 5 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA62:7694b CAOLD
TI 2'-aminobenzophenones (2(or 4)-substituted)
PA Hoffmann-La Roche, F., & Co. A.-G.
DT Patent
TI 2(or 4)-substituted-2'-aminobenzophenones
AU Fryer, R. Ian; Sternbach, L. H.
DT Patent

PATENT NO.	KIND	DATE
FR 1375300		
BE 637329		
GB 982909		
NL 298186		
US 3261867		1966

IT **747-99-9** 784-40-7 **805-61-8** 839-86-1
909-51-3 1424-76-6 1444-66-2 1444-68-4 1444-69-5
1444-70-8 1444-71-9 1444-72-0 1581-13-1 1823-21-8
1823-22-9 1823-23-0 1823-24-1 1823-25-2 **2237-07-2**
3109-35-1 3876-93-5

L5 ANSWER 6 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA62:946e CAOLD
TI metabolism of diazepan
AU Jommi, Giancarlo; Manitto, P.; Silanos, M. A.
IT 439-14-5 589-41-3 719-59-5 728-10-9 784-41-8 1022-13-5
1609-46-7 2139-85-7 2139-87-9 2139-90-4 2139-93-7 2139-94-8
2237-07-2

L5 ANSWER 7 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA61:9517h CAOLD
TI hydroboration of ureido-substituted olefins
AU Butler, D. N.; Soloway, A. H.
IT **747-99-9** 784-39-4 784-40-7 837-58-1
909-51-3 2647-49-6 2894-44-2 2894-51-1 4076-50-0
4937-62-6 5041-13-4 5041-14-5 5041-15-6 5621-60-3 5627-71-4
5627-75-8 5627-78-1 5649-38-7 7703-29-9 14421-89-7 14439-59-9
14439-60-2 90644-60-3 97470-05-8

L5 ANSWER 8 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA61:9515f CAOLD
TI 5-aryl-3H-1,4-benzodiazepin-2(1H)-ones
AU Reeder, Earl; Sternbach, L. H.
PA Hoffmann-La Roche Inc.
DT Patent

PATENT NO.	KIND	DATE
US 3136815		1964
CH 396016		
DE 1199776		
GB 972969		

IT 723-99-9 728-09-6 **747-99-9** 784-38-3
805-61-8 806-68-8 844-11-1 844-15-5 844-16-6
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1548-36-3 1581-13-1 1584-62-9 1647-74-1 1799-13-9 1799-16-2
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2894-47-5 2894-49-7 2894-52-2 2894-61-3 2894-67-9 2894-68-0
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2955-36-4 2955-37-5 2958-36-3 2994-61-8 3022-68-2 3034-65-9
3037-73-8 3037-74-9 3109-35-1 3900-26-3 3900-31-0 4016-85-7
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5627-72-5 5627-73-6 5627-74-7 5627-79-2 5627-82-7 5627-86-1
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17972-77-9 17972-78-0 17977-76-3 18100-68-0 42389-80-0 98024-36-3

L5 ANSWER 9 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA60:12033h CAOLD
TI 3H-1,4-benzodiazepin-2(1H)-one derivs.
AU Reeder, Earl; Sternbach, L. H.; Keller, O.; Steiger, N.; Stempel, A.; Fryer, R. I.; Saucy, G.; Sach, G. S.
PA Hoffmann-La Roche, F., & Co. A.-G.
DT Patent

PATENT NO.	KIND	DATE
DE 1145626		
FR 1343476		

IT 328-87-0 402-13-1 731-83-9 732-34-3 732-54-7 784-38-3
784-39-4 789-96-8 790-10-3 837-58-1 1022-13-5 1483-54-1
2011-67-8 2011-72-5 2195-52-0 2285-16-7 2410-36-8 2647-50-9
2730-04-3 2835-77-0 2838-79-1 2886-65-9 2891-12-5 2894-49-7
2894-51-1 2894-52-2 2894-61-3 2894-62-4 2894-68-0 2898-08-0
2958-36-3 3034-65-9 3108-28-9 3839-56-3 3864-49-1 3894-63-1
3900-26-3 3900-31-0 4076-50-0 4695-47-0 4699-82-5 4873-37-4
4873-59-0 4928-02-3 4928-03-4 4928-04-5 4928-07-8
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5991-66-2 6404-87-1 7374-99-4 14421-73-9 14646-64-1 15411-09-3
17549-79-0 17562-32-2 23099-57-2 23193-81-9 93925-76-9 97771-02-3
97833-36-8

L5 ANSWER 10 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA59:12827g CAOLD
TI 2-oxo-1,2-dihydro-1,4-benzodiazepines
AU Reeder, Earl; Sternbach, L. H.; Steiger, N.; Keller, O.; Stempel, A.
PA Hoffmann-La Roche, F., & Co. A.-G.
DT Patent

PATENT NO.	KIND	DATE
DE 1136709		
FR 1343475		

GB 972961
GB 972962
GB 972963
GB 972964
GB 972965
GB 972966
GB 972967
GB 972968
US 3051701 1962

IT 328-87-0 657-05-6 657-06-7 731-84-0 732-34-3 784-38-3
789-96-8 846-84-4 851-70-7 851-74-1 973-24-0 1022-13-5
1163-24-2 1427-45-8 1479-58-9 1584-62-9 1647-74-1 1764-97-2
1858-71-5 2011-67-8 2011-69-0 2011-70-3 2285-16-7 2647-50-9
2730-04-3 2730-05-4 2797-22-0 2824-08-0 2838-79-1 2848-94-4
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2894-65-7 2894-67-9 2894-68-0 2958-36-3 3023-44-7 3034-65-9
3864-49-1 3894-63-1 3900-26-3 3900-31-0 4016-85-7 4142-77-2
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L5 ANSWER 11 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA58:3436c CAOLD
TI quinazolines and 1,4-benzodiazapines - (VI) halo-, methyl-, and methoxy-substituted 1,3-dihydro-5-phenyl-2H-1,4-benzodiazepin-2-ones
AU Sternbach, Leo H.; Fryer, R. I.; Metlesics, W.; Reeder, E.; Sach, G. S.; Saucy, G.; Stempel, A.

IT 728-09-6 744-15-0 **747-99-9** **805-61-8**
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909-51-3 1022-13-5 1492-96-2 1512-62-5 1548-36-3
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96261-61-9 96585-11-4

L5 ANSWER 12 OF 12 CAOLD COPYRIGHT 2005 ACS on STN

AN CA57:830a CAOLD
TI 1,3-dihydro-2H-1,4-benzodiazepin-2-ones and their 4-oxides
AU Bell, Stanley C.; Sulkowski, T. S.; Gochman, C.; Childress, S. J.
IT 719-59-5 793-99-7 963-39-3 1022-13-5 1789-31-7 1789-33-9
2109-57-1 2120-68-5 2888-64-4 2890-44-0 2898-08-0 3037-74-9
3966-78-7 3967-09-7 3967-13-3 4016-85-7 4047-73-8 4177-79-1
4187-02-4 4695-47-0 4699-82-5 5220-83-7 5358-91-8 5571-63-1
5571-65-3 6640-59-1 14421-80-8 14439-50-0 29176-43-0 30169-33-6
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=> d all hitstr 1-12

L5 ANSWER 1 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA65:18558e CAOLD
TI trichloroacetoacetates - (I) synthesis and reactions of ethyl and β,β,β-trifluoroethyl trichloroacetoacetates
AU Wald, David K.; Joullie, M. M.
IT 133-08-4 492-27-3 918-00-3 3702-98-5 **4873-59-0**
5044-52-0 6590-65-4 7597-56-0 10174-60-4 10174-61-5 10174-62-6
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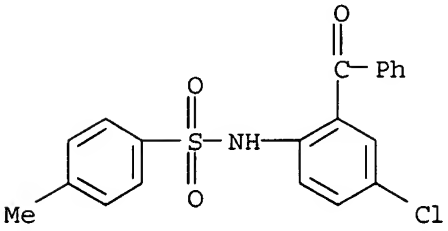
IT **4873-59-0**
RN 4873-59-0 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA64:19498a CAOLD
TI 2-(N-substituted amino)halobenzophenones
AU Reeder, Earl; Sternbach, L. H.
DT Patent

PATENT NO.	KIND	DATE
US 3239564		1966

IT 439-14-5 723-99-9 728-09-6 **747-99-9** 784-38-3
784-39-4 784-40-7 **805-61-8** 806-68-8 837-58-1
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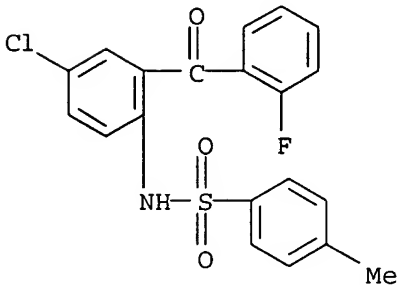
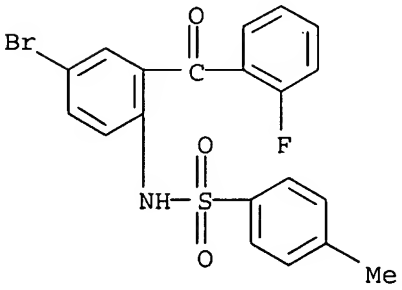
5627-92-9 5649-38-7 **5649-39-8** 5992-75-6 6021-21-2
6021-35-8 6021-36-9 6056-28-6 7374-99-4 17977-91-2 21723-84-2

IT **747-99-9** **805-61-8** **909-51-3**
4142-76-1 **4873-59-0** **5649-39-8**

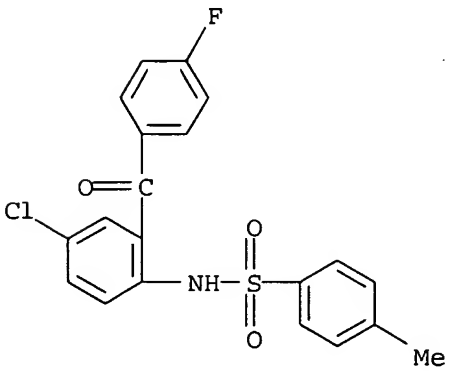
RN 747-99-9 CAOLD
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



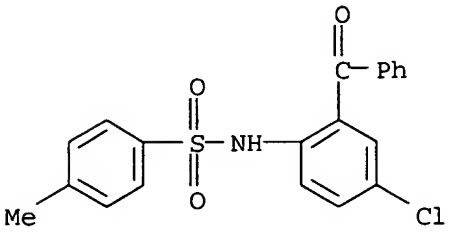
RN 805-61-8 CAOLD
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



RN 909-51-3 CAOLD
CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)

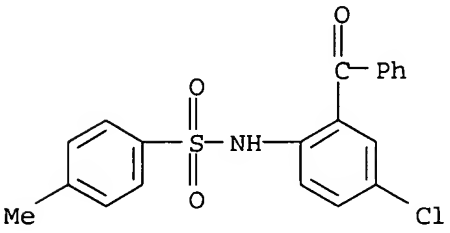


RN 4142-76-1 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)

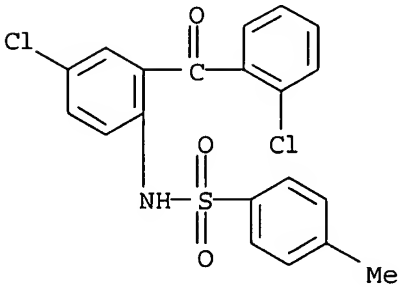


● Na

RN 4873-59-0 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 5649-39-8 CAOLD
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA64:3425g CAOLD
TI 2-methyl (and benzyl)amino-5-chlorobenzophenones
AU Reeder, Earl; Sternbach, L. H.
DT Patent
TI 2-methyl(and benzyl)amino-5-chlorobenzophenones
PA Hoffmann-La Roche, F., & Co. A.-G.
DT Patent

PATENT NO. KIND DATE

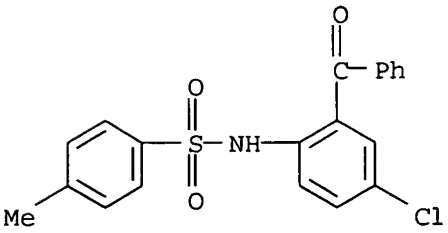
PI GB 972975

IT 1022-13-5 1843-10-3 1843-11-4 4873-37-4 4873-58-9
4873-59-0 4890-54-4 5543-91-9 5543-92-0 5543-93-1
5543-94-2 5543-95-3

IT **4873-59-0**

RN 4873-59-0 CAOLD

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 12 CAOLD COPYRIGHT 2005 ACS on STN

AN CA63:17978e CAOLD

TI 2-alkenylamino-5-halobenzophenones

AU Reeder, Earl; Sternbach, L. H.

PA Hoffmann-La Roche, F., & Co. A.-G.

DT Patent

PATENT NO. KIND DATE

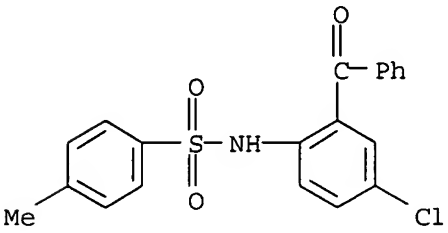
PI GB 972971

IT **4142-76-1**

IT **4142-76-1**

RN 4142-76-1 CAOLD

CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)



● Na

L5 ANSWER 5 OF 12 CAOLD COPYRIGHT 2005 ACS on STN

AN CA62:7694b CAOLD

TI 2'-aminobenzophenones (2(or 4)-substituted)

PA Hoffmann-La Roche, F., & Co. A.-G.

DT Patent

TI 2(or 4)-substituted-2'-aminobenzophenones

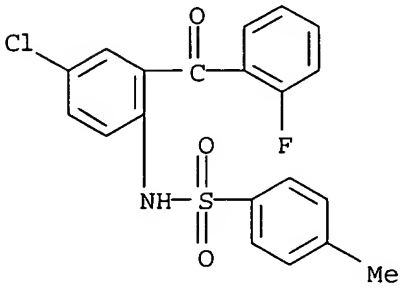
AU Fryer, R. Ian; Sternbach, L. H.
DT Patent

PATENT NO.	KIND	DATE
FR 1375300		
BE 637329		
GB 982909		
NL 298186		
US 3261867		1966

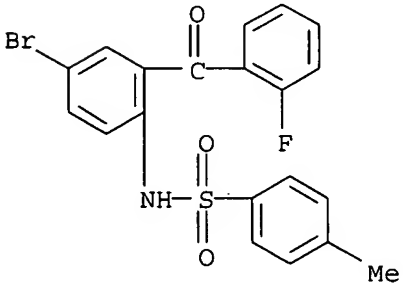
IT **747-99-9** 784-40-7 **805-61-8** 839-86-1
909-51-3 1424-76-6 1444-66-2 1444-68-4 1444-69-5
1444-70-8 1444-71-9 1444-72-0 1581-13-1 1823-21-8
1823-22-9 1823-23-0 1823-24-1 1823-25-2 **2237-07-2**
3109-35-1 3876-93-5

IT **747-99-9** **805-61-8** **909-51-3**
1823-22-9 **2237-07-2**

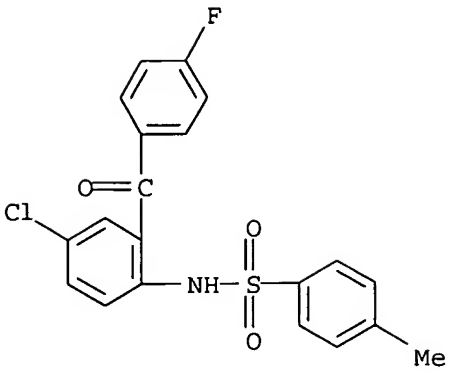
RN 747-99-9 CAOLD
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



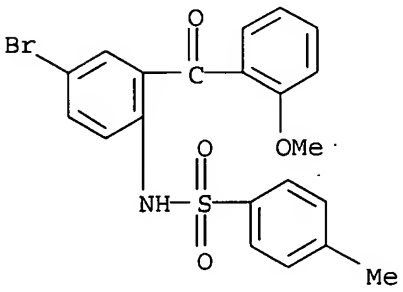
RN 805-61-8 CAOLD
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



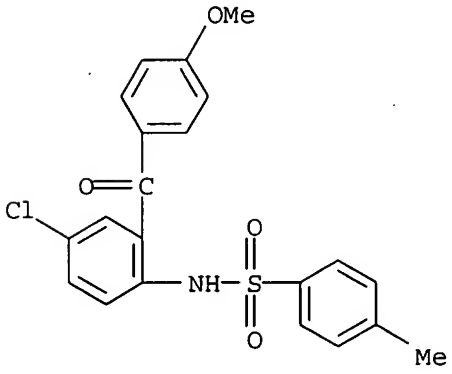
RN 909-51-3 CAOLD
CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



RN 1823-22-9 CAOLD
CN p-Toluenesulfonanilide, 2'-o-anisoyl-4'-bromo- (7CI, 8CI) (CA INDEX NAME)

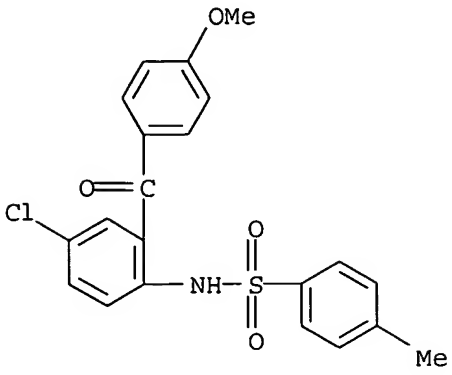


RN 2237-07-2 CAOLD
CN p-Toluenesulfonanilide, 2'-p-anisoyl-4'-chloro- (7CI, 8CI) (CA INDEX NAME)

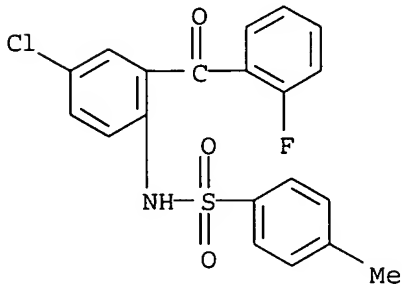


L5 ANSWER 6 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA62:946e CAOLD
TI metabolism of diazepan
AU Jommi, Giancarlo; Manitto, P.; Silanos, M. A.
IT 439-14-5 589-41-3 719-59-5 728-10-9 784-41-8 1022-13-5
1609-46-7 2139-85-7 2139-87-9 2139-90-4 2139-93-7 2139-94-8
2237-07-2
IT **2237-07-2**

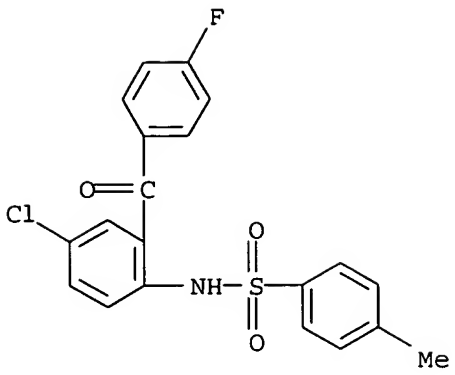
RN 2237-07-2 CAOLD
CN p-Toluenesulfonanilide, 2'-p-anisoyl-4'-chloro- (7CI, 8CI) (CA INDEX NAME)



L5 ANSWER 7 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA61:9517h CAOLD
TI hydroboration of ureido-substituted olefins
AU Butler, D. N.; Soloway, A. H.
IT **747-99-9** 784-39-4 784-40-7 837-58-1
909-51-3 2647-49-6 2894-44-2 2894-51-1 4076-50-0
4937-62-6 5041-13-4 5041-14-5 5041-15-6 5621-60-3 5627-71-4
5627-75-8 5627-78-1 5649-38-7 7703-29-9 14421-89-7 14439-59-9
14439-60-2 90644-60-3 97470-05-8
IT **747-99-9** **909-51-3**
RN 747-99-9 CAOLD
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 909-51-3 CAOLD
CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



L5 ANSWER 8 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA61:9515f CAOLD
TI 5-aryl-3H-1,4-benzodiazepin-2(1H)-ones
AU Reeder, Earl; Sternbach, L. H.
PA Hoffmann-La Roche Inc.
DT Patent

PATENT NO.	KIND	DATE
US 3136815		1964
CH 396016		
DE 1199776		
GB 972969		

IT 723-99-9 728-09-6 **747-99-9** 784-38-3
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5627-72-5 5627-73-6 5627-74-7 5627-79-2 5627-82-7 5627-86-1
5627-87-2 5627-91-8 5627-92-9 **5649-39-8** 5991-66-2
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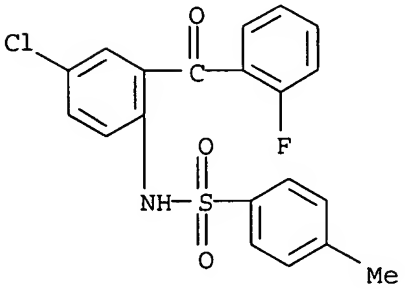
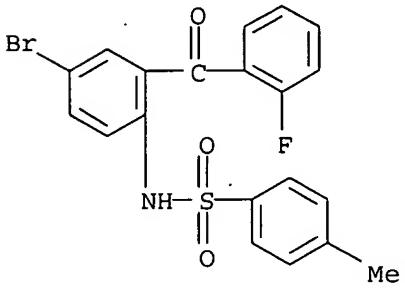
IT **747-99-9** **805-61-8** **4142-76-1**
4873-59-0 **5649-39-8**
RN 747-99-9 CAOLD

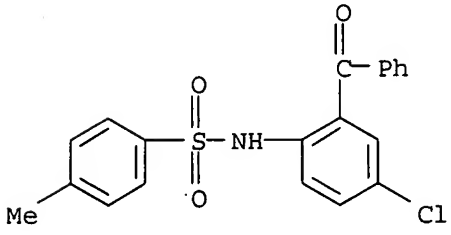
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



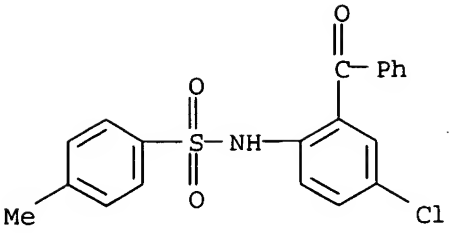
RN 805-61-8 CAOLD
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



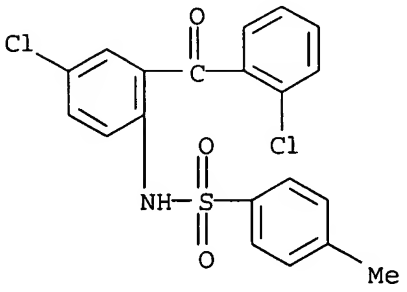
RN 4142-76-1 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)



RN 4873-59-0 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 5649-39-8 CAOLD
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



L5 ANSWER 9 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA60:12033h CAOLD
TI 3H-1,4-benzodiazepin-2(1H)-one derivs.
AU Reeder, Earl; Sternbach, L. H.; Keller, O.; Steiger, N.; Stempel, A.; Fryer, R. I.; Saucy, G.; Sach, G. S.
PA Hoffmann-La Roche, F., & Co. A.-G.
DT Patent

PATENT NO.	KIND	DATE
DE 1145626		
FR 1343476		

IT 328-87-0 402-13-1 731-83-9 732-34-3 732-54-7 784-38-3
784-39-4 789-96-8 790-10-3 837-58-1 1022-13-5 1483-54-1
2011-67-8 2011-72-5 2195-52-0 2285-16-7 2410-36-8 2647-50-9
2730-04-3 2835-77-0 2838-79-1 2886-65-9 2891-12-5 2894-49-7
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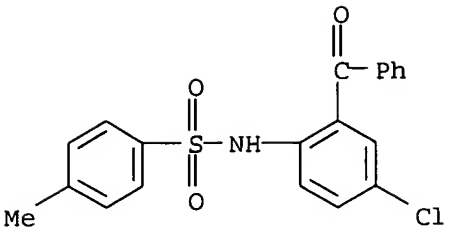
97833-36-8

IT **4873-59-0**
RN 4873-59-0 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L5 ANSWER 10 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA59:12827g CAOLD
TI 2-oxo-1,2-dihydro-1,4-benzodiazepines
AU Reeder, Earl; Sternbach, L. H.; Steiger, N.; Keller, O.; Stempel, A.
PA Hoffmann-La Roche, F., & Co. A.-G.
DT Patent

PATENT NO.	KIND	DATE
DE 1136709		
FR 1343475		
GB 972961		
GB 972962		
GB 972963		
GB 972964		
GB 972965		
GB 972966		
GB 972967		
GB 972968		
US 3051701		1962

IT 328-87-0 657-05-6 657-06-7 731-84-0 732-34-3 784-38-3
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2730-04-3 2730-05-4 2797-22-0 2824-08-0 2838-79-1 2848-94-4
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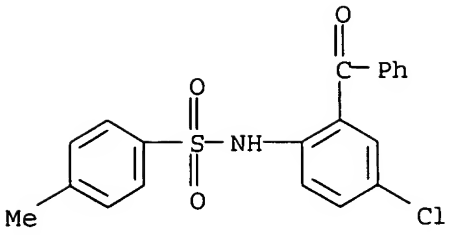
IT **4873-59-0**
RN 4873-59-0 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L5 ANSWER 11 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA58:3436c CAOLD
TI quinazolines and 1,4-benzodiazapines - (VI) halo-, methyl-, and methoxy-substituted 1,3-dihydro-5-phenyl-2H-1,4-benzodiazepin-2-ones
AU Sternbach, Leo H.; Fryer, R. I.; Metlesics, W.; Reeder, E.; Sach, G. S.; Saucy, G.; Stempel, A.
IT 728-09-6 744-15-0 **747-99-9** **805-61-8**
806-68-8 844-11-1 844-16-6 846-84-4 **859-04-1**
909-51-3 1022-13-5 1492-96-2 1512-62-5 1548-36-3
1584-62-9 1647-74-1 1894-70-8 2647-49-6 2647-50-9 2648-00-2
2648-01-3 2824-08-0 2824-09-1 2836-40-0 2886-65-9 2894-49-7
2894-61-3 2894-64-6 2894-65-7 2894-67-9 2894-68-0 2898-08-0
2994-61-8 3023-44-7 3034-65-9 3109-35-1 3829-35-4 3900-31-0
4016-85-7 **4142-76-1** 4142-77-2 4695-47-0 4699-82-5
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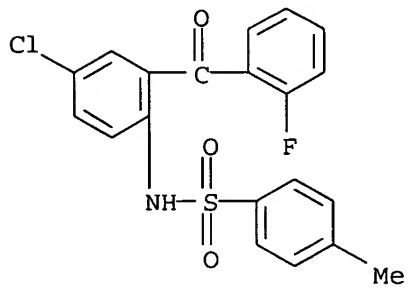
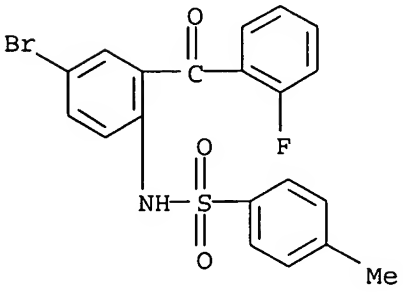
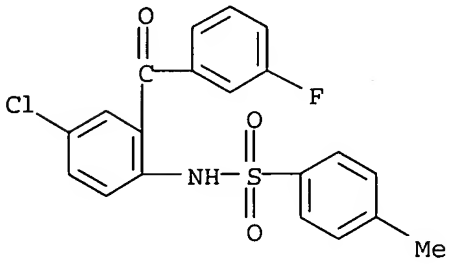
5649-39-8 **94579-32-5**
RN 747-99-9 CAOLD
CN Benzenesulfonamide, N-[4-chloro-2-(2-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



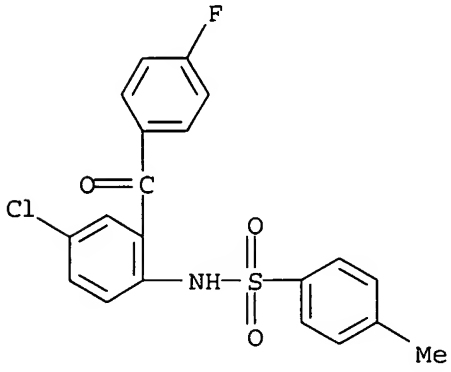
RN 805-61-8 CAOLD
CN p-Toluenesulfonanilide, 4'-bromo-2'-(o-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



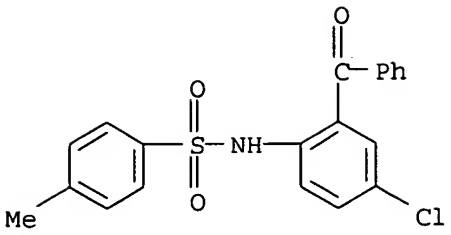
RN 859-04-1 CAOLD
CN Benzenesulfonamide, N-[4-chloro-2-(3-fluorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 909-51-3 CAOLD
CN p-Toluenesulfonanilide, 4'-chloro-2'-(p-fluorobenzoyl)- (7CI, 8CI) (CA INDEX NAME)

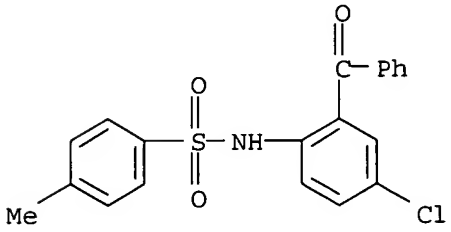


RN 4142-76-1 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl-, sodium salt (9CI) (CA INDEX NAME)

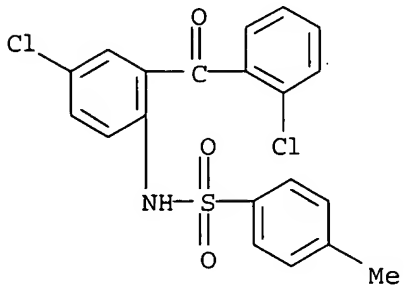


● Na

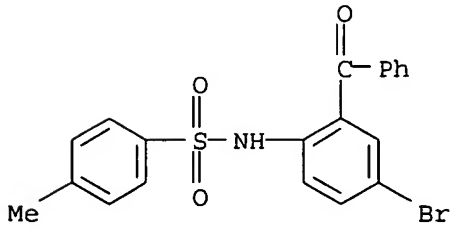
RN 4873-59-0 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 5649-39-8 CAOLD
CN Benzenesulfonamide, N-[4-chloro-2-(2-chlorobenzoyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 94579-32-5 CAOLD
CN Benzenesulfonamide, N-(2-benzoyl-4-bromophenyl)-4-methyl- (9CI) (CA INDEX NAME)



L5 ANSWER 12 OF 12 CAOLD COPYRIGHT 2005 ACS on STN
AN CA57:830a CAOLD
TI 1,3-dihydro-2H-1,4-benzodiazepin-2-ones and their 4-oxides
AU Bell, Stanley C.; Sulkowski, T. S.; Gochman, C.; Childress, S. J.
IT 719-59-5 793-99-7 963-39-3 1022-13-5 1789-31-7 1789-33-9
2109-57-1 2120-68-5 2888-64-4 2890-44-0 2898-08-0 3037-74-9
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4187-02-4 4695-47-0 4699-82-5 5220-83-7 5358-91-8 5571-63-1
5571-65-3 6640-59-1 14421-80-8 14439-50-0 29176-43-0 30169-33-6
40973-93-1 41631-13-4 41631-29-2 41631-34-9 41631-36-1 41631-38-3
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93809-34-8 94205-21-7 94880-28-1 95743-19-4 96272-60-5 96330-20-0
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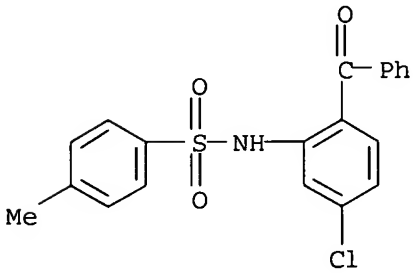

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Bibliographic Information

Synthesis of substituted amides and their bioactivity. Wu, Jingping; Chen, Fuheng. Department of Applied Chemistry, Beijing Agricultural University, Beijing, Peop. Rep. China. Yingyong Huaxue (1995), 12(4), 80-3. CODEN: YIHUED ISSN: 1000-0518. Journal written in Chinese. CAN 123:285437 AN 1995:811922 CAPLUS (Copyright 2004 ACS on SciFinder (R))

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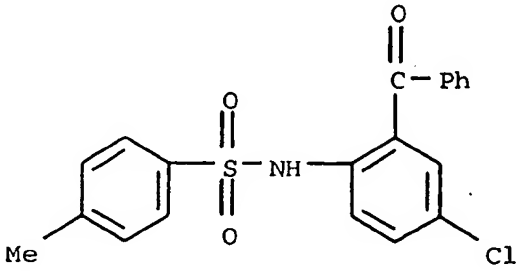
(synthesis of substituted amides and their plant growth regulator activity)

4016-85-7P

4873-59-0P



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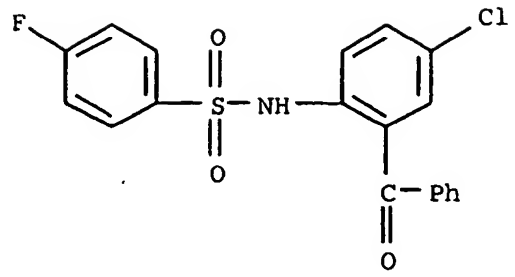

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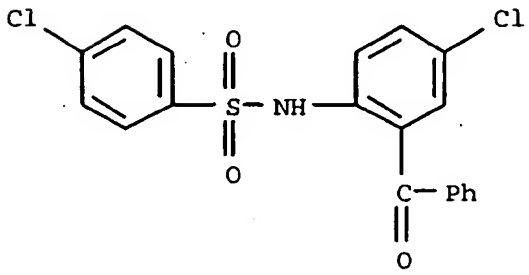

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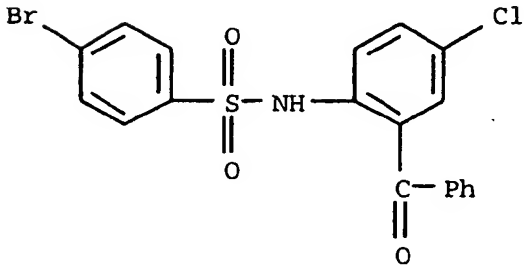

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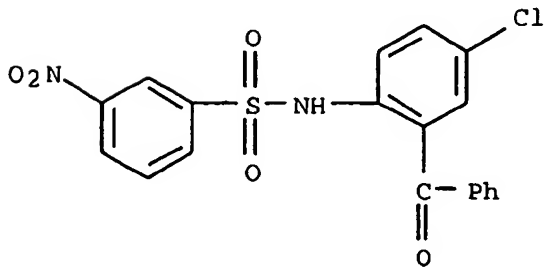

169263-23-4P

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92435-94-4P
157488-15-8P
157488-19-2P
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169263-26-7P
169263-27-8P
169263-28-9P
169263-29-0P
169263-30-3P
169263-31-4P
169263-32-5P
169263-33-6P
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169263-35-8P
169263-36-9P
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98-66-8, p-Chlorobenzenesulfonic acid
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Patent Family Information

Patent No.	Kind	Date	Application No.	Date
US 5338755	A	19940816	US 1992-923839	19920803
FR 2665441	A1	19920207	FR 1990-9778	19900731
FR 2665441	B1	19921204		
IL 114934	A1	19960804	IL 1991-114934	19910730
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FR 2679903	A1	19930205	FR 1991-9908	19910802
FR 2679903	B1	19931203		
AU 9224758	A1	19930302	AU 1992-24758	19920731
AU 658664	B2	19950427		
BR 9205336	A	19931116	BR 1992-5336	19920731
JP 06501960	T2	19940303	JP 1993-503337	19920731
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IL 117592	A1	19990411	IL 1992-117592	19920731
CZ 288173	B6	20010516	CZ 1993-682	19920731
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NO 9301262	A	19930526	NO 1993-1262	19930401
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NO 180047	C	19970205		
US 5397801	A	19950314	US 1994-240360	19940510
US 5481005	A	19960102	US 1994-348150	19941128
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FI 9800175	A	19980127	FI 1998-175	19980127

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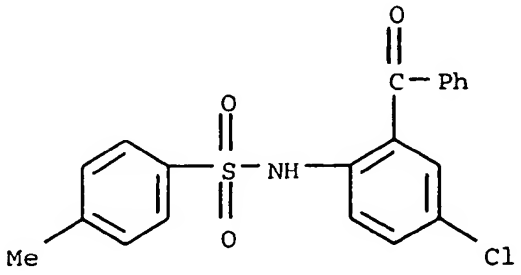

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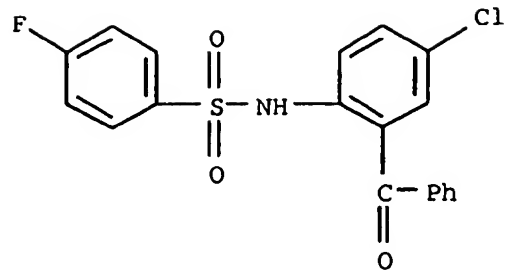

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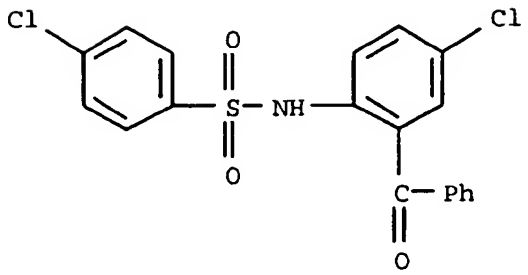

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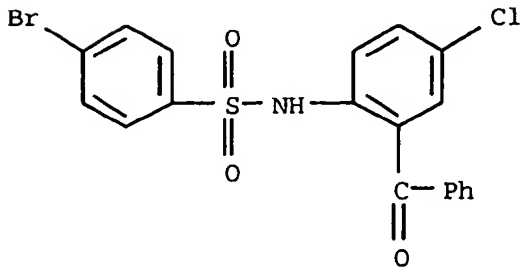

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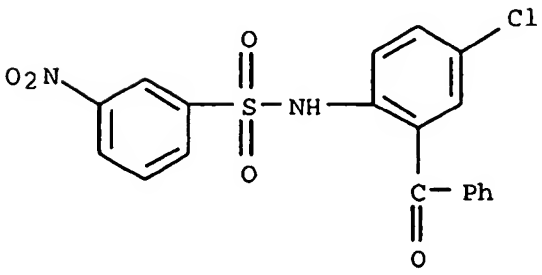

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